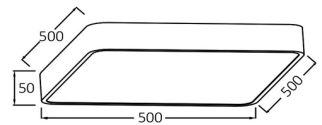


Product Datasheet



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

Datasheet is valid for following Model numbers

Product Code	CCT	Body Color
BH16-05290	3IN1	White
BH16-05291	3IN1	Black
BH16-05297	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

Importer / Company:
Braytron S.R.L
Bulevardul iuliu maniu,nr.616, corp B
etaj 1 sector 6,061129 bucuresti, Romania
info@braytron.com 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 : 45 w
- Color Temperatue : 3IN1
- Luminous Flux(whole Product) : 4650 lm
- Luminous Flux(LED System) : 4650 lm
- Color Rendering Index(CRI) : > 80
- Energy Efficiency Level : F
- Beam Angle : 120 Degree(s)
- Chromaticity(SDCM) : < 6

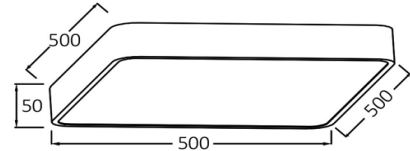
Electrical Characteristics

- 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%

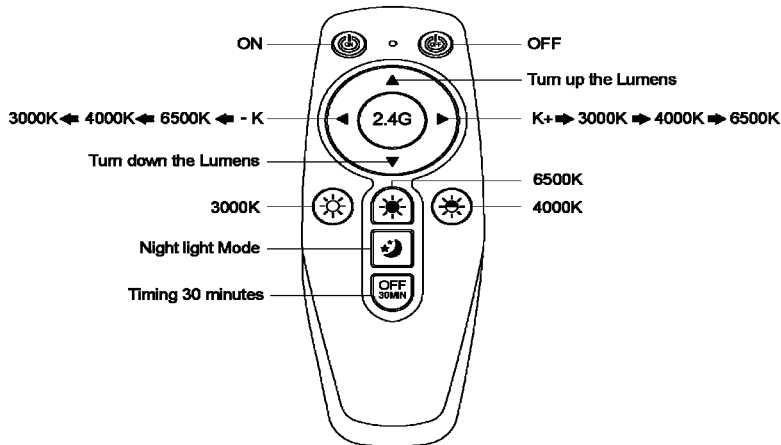
Test condition:light for 30 mins under nominal voltage input and 25°C±1°working environment

Lamp Dimensions & Weight

- Diameter(mm) : :
- Length(mm) : 500
- Width(mm) : 500
- Height(mm) : 50
- Cutout(mm) : :
- Weight(kg) : 2,02



Remote Control Drawing



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

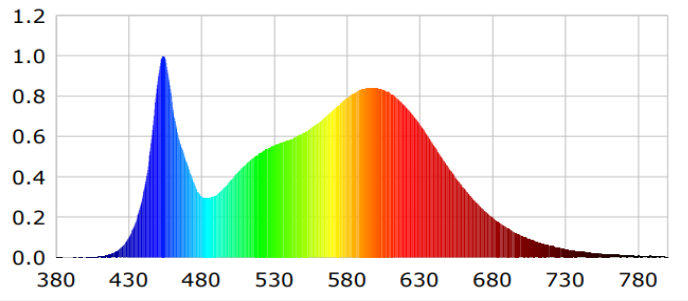
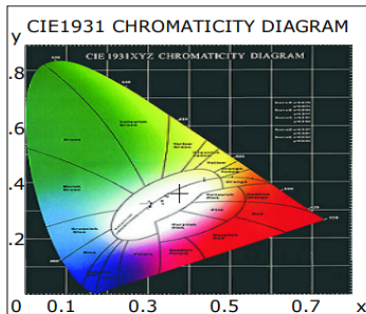


Test condition: light for 30 mins under nominal voltage input and 25°C±1° working environment

Optical and electrical test parameter:

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3787$ $y=0.3646$ $u(u')=0.2289$ $v=0.3306$ $v'=0.4958$
 CCT: $T_c=3955K$ ($duv=-0.00530$) Color Ratio: $R=0.193$ $G=0.765$ $B=0.042$
 Peak Wavelength: 453.5nm Half Bandwidth: 24.5nm
 Dominant Wavelength: 582.7nm Color Purity: 0.231
 CRI: $R_a=86.1$ TM30: $R_f=83$, $R_g=96$
 $R1=86$ $R2=94$ $R3=95$ $R4=84$ $R5=87$ $R6=91$ $R7=84$ $R8=67$
 $R9=22$ $R10=86$ $R11=84$ $R12=69$ $R13=89$ $R14=99$ $R15=81$
 Color Quality Scale: $Q_a=83.8$, $Q_f=83.7$, $Q_p=84.7$, $Q_g=94.5$
 $Q1=83$ $Q2=98$ $Q3=81$ $Q4=76$ $Q5=82$ $Q6=85$ $Q7=88$ $Q8=89$
 $Q9=98$ $Q10=90$ $Q11=86$ $Q12=83$ $Q13=83$ $Q14=76$ $Q15=79$



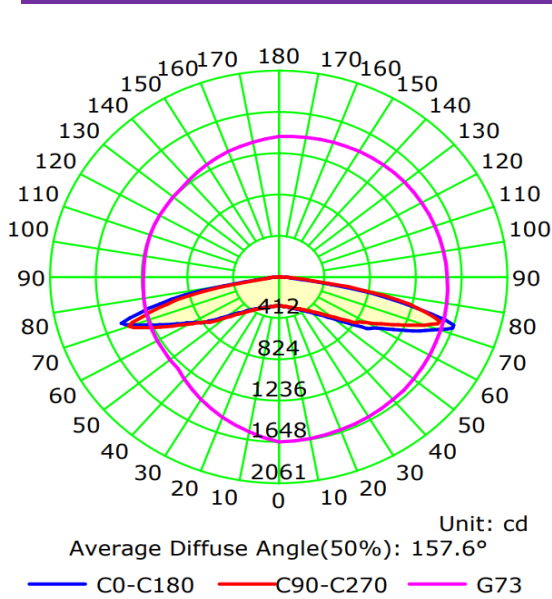
Photometric Parameters

Luminous Flux: 4271.22 lm Efficiency: 105.46 lm/W Radiant Power: 13.406 W
 EEI: 0.13 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 227.60V Current: 0.1820A Power: 40.50W
 Power Factor: 0.9740 Frequency: 50.00Hz

Darkroom Test report



Height	Avg./Nadir, E	Beam Angle: 157.4°	Diameter / Area
1.0m	50.44/ 288.26lx		10.02m / 78.81sq.m
2.0m	12.61/ 72.06lx		20.03m / 315.25sq.m
3.0m	5.60/ 32.03lx		30.05m / 709.31sq.m
4.0m	3.15/ 18.02lx		40.07m / 1260.99sq.m
5.0m	2.02/ 11.53lx		50.09m / 1970.30sq.m
6.0m	1.40/ 8.01lx		60.10m / 2837.24sq.m
8.0m	0.79/ 4.50lx		80.14m / 5043.98sq.m
9.0m	0.62/ 3.56lx		90.16m / 6383.79sq.m
10.0m	0.50/ 2.88lx		100.17m / 7881.22sq.m
12.0m	0.35/ 2.00lx		120.21m / 11348.95sq.m

Flux Out: 3975.43lm