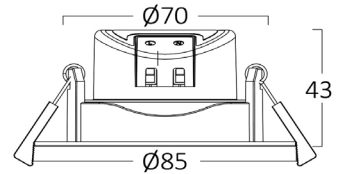


Product Datasheet



Products Family : Led Lighting Fixture
Products Name : LED Spotlight

Datasheet is valid for following Model numbers

Product Code	CCT	Body Color
BD02-60780	3IN1	White
BD02-60781	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

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 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

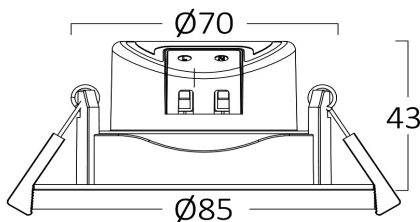
- Lifetime (L70B50) : 20000 h
- Input Voltage : 220-240V
- Frequency : 50-60 Hz
- Power Factor : >0.7
- Starting Time : < 0.5 s
- Lumen Maintenance Factor : > 0.899
- Number of Switch Cycles : > 15000
- Material : Plastic
- Working Temperature : -20°C~+45°C
- Storage Temperature : -20°C~+60°C
- Environment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

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:

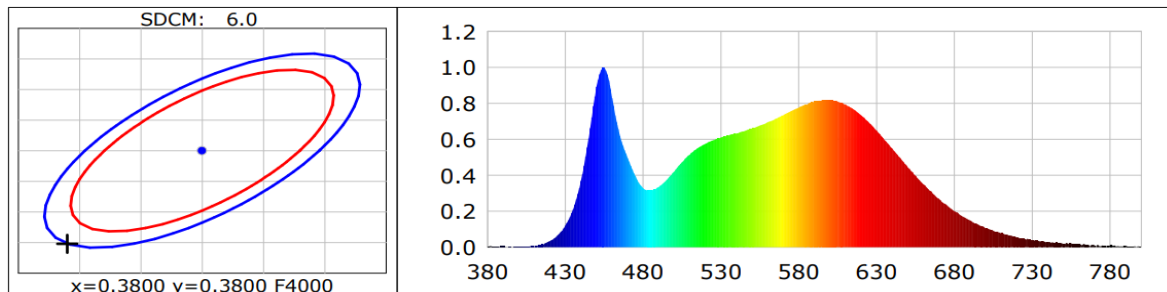
CIE Colorimetric Parameters

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

