





Smart MR16 Halogen Equivalent



Part Number

| | |
|-----------------------------|---|
| BLV1653M-NVW81LBT1 |  1 color, CCT selected from 2700K to 6500K |
| BLV1653M-N2765W81LBT1 |  2 colors, CCT 2700-6500K |
| BLV1653M-NRGB2765W81LBT1 |  4 colors, single CCT + RGB |
| BLV1653D120-NRGB2765W81LBT1 |  5 colors, CCT 2700-6500K +RGB |

Specification (1 color)

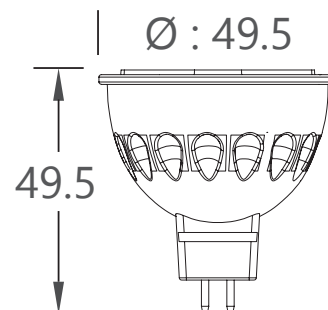
| | |
|---------------------------|--------------|
| Voltage(V) | 12 |
| Power(W) | 5 |
| Frequency(Hz) | 50/60 |
| Flux(lm) | 400 |
| Efficiency(lm/w) | 80 |
| Power Factor | >0.7 |
| Standby Power | <0.5W |
| CCT Option(K) | 2700 |
| CRI | 80 |
| Beam Angle(°) | 25/40/60/120 |
| Base | GU5.3 |
| Energy Efficiency Class | F |
| Operating Temperature(°C) | -10~40 |

CERTIFICATE



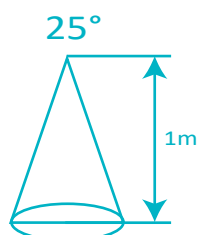
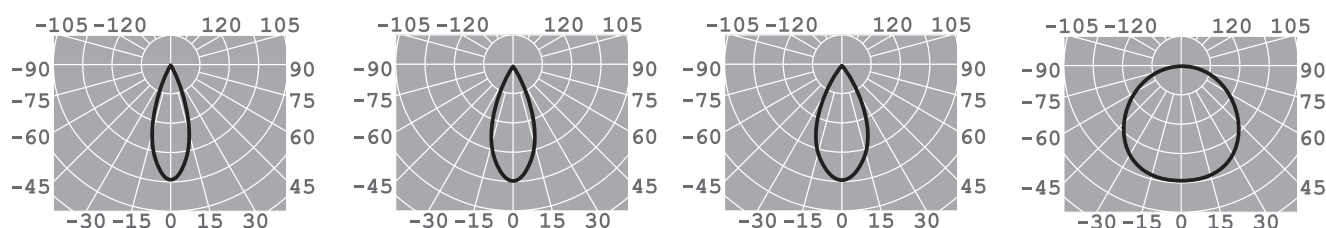
2D Diagram

| | |
|----------------|------------|
| Dimmension(mm) | Ø49.5*49.5 |
| Weight(g) | 51 |
| Base | GU5.3 |

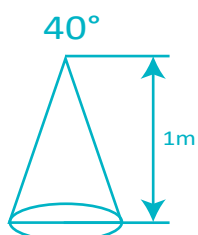


Base Type : GU5.3

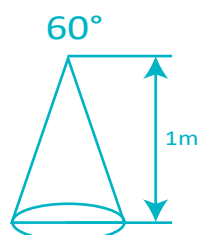
Luminous Intensity Distribution Diagram



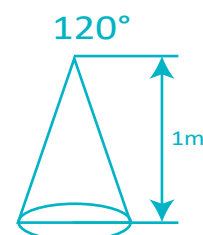
950 lx



670 lx



218 lx



60 lx

Package

| | G.W | V.W | Size | Carton Number |
|--------------|--------|---------|---------------|---------------------|
| White Box | 66g | - | 53*53*83mm | 1pc of lamp |
| Outer Carton | 10.2Kg | 11.96Kg | 590*304*400mm | 150pcs of white box |

APP

The devices are controlled, connected, and set-up by the following APP's:



Please check our website: www.bltc.com.tw for further information.

Device Reset Procedure

In case of connection missing and manual reset needed, please follow the procedures:

1. Turn on the power of the device for 10-15 seconds, and then turn it off for about 5 seconds.
2. Repeat the operation 3 times until the device or indication LED flashes 3 times. The flashed colors may be white or red.
3. Then the device will return to its preset condition before delivery and can be set-up again.

Safety Instructions

Warning

- The retrofits & fixtures should be used with the specified wattage in appropriate equipment or retrofits & fixtures house to prevent breakage or overheating.
- Operate the retrofits & fixtures in the appropriate position if specified to prevent damage or overheating.
- Turn off the electrical power in the conditions of installation, removing, or cleaning the retrofits & fixtures.
- Keep the retrofits & fixtures out of reach to the children.

Environment Notice

- Please avoid installing or operating the retrofits & fixtures under the following conditions:
- A place where the retrofits & fixtures is hit by rain or water drops unless necessary ingress protection is marked.
- A place with high humidity unless necessary ingress protection is marked.
- A place where the atmosphere contains inflammable substances such as gasoline, lacquer, or dust.
- A place near flammable objects such as gasoline, spray, chemicals, paints, oil, ...etc.
- An acid environment
- A place that is likely to be impacted by force or vibration

Installation instructions

- Remove package before installation of retrofits & fixtures.
- Follow installation instructions in the package.
- Do not use bare hands or stained gloves to install the new retrofits & fixtures or remove the existing retrofits & fixtures.

False operations

- To prevent damage, burn or injury, please avoid the following operations:
- Cover retrofits & fixtures with paper, fabric, or any flammable material to avoid burning.
- Insert metal object into the gap of retrofits & fixtures base.
- Disassemble or reconstruct the retrofits & fixtures
- Stare directly at the retrofits & fixtures while the retrofits & fixtures is operating,
- Wash the retrofits & fixtures with water or any detergent
- Install the retrofits & fixtures in the sealed fixture unless particularly remarked in datasheet.
- Install the retrofits & fixtures on a damaged socket.
- Paint or put colors on the retrofits & fixtures.

Mesh Network & Connection

- All BLTC Smart Lighting retrofit, luminaire, and expansions except for gateway series products, are connected and communicated by bluetooth network. The messages encrypted with AES 128-256 by BLTC network, and therefore the standard bluetooth connection tools in phones or other devices cannot be linked.
- The transmission range listed in the datasheet is measured in an open area. In reality, the practice connecting distance between devices depends heavily on the interior of the decoration and the location of the devices.
- The number of devices that could be connected and operated is limited and depends on the exact area of project.
- The device complies with national regulations of radio frequency in different countries (i.g, Part 15 of FCC) under the following circumstances:
 - (1) The device may not cause harmful interference
 - (2) The device must accept any interference received, including interference that may cause undesired operations.
- Change of antenna in or on the devices may result in the device exceeding the RF exposure requirement.

Transformer & Dimmer Selection Guide (for 12V device)

12V AC Transformer:

There are two types transformer available commercially:

A. Magnetic AC Transformer:

The traditional heavy transformer without electronic components can be coped with our products with good compatibility.

B. Electronic AC Transformer:

The traditional economic transformer used mainly for MR16 halogen lamp, usually performs poor compatibility for low voltage LED lamp. We don't suggest this type of transformer due to the frequent problems such as no light or flicker..

12V DC Transformer:

There is no problem to use DC transformer with our low voltage products due to its high stability.

Dimmer Selection:

When 12V DC transformer is used, the traditional Triac dimmer cannot work. Therefore, the dimming effect of low voltage LED Lamp heavily depends on the AC transformer. The different brands of dimmers also affect the dimming performance. Please contact us if you want to know further dimming effect of our low voltage LED Lamp.