TECHLIGHT
INNOVATION IN ILLUMINATION

LVBRWL

Low Voltage Brass Well Light

Catalog Number	
Project	Type

SERIES	HOUSING HEIGHT	HOUSING WIDTH
LVABWLC	5.12”	3.82”

FEATURES & SPECIFICATIONS

APPLICATION — The LVBRWL Well Light is designed as a durable, low-profile MR16 brass inground fixture suitable for uplighting, wall washing, backlighting, landscape accents, and general outdoor illumination. Its compact form allows installation in a wide range of landscape and architectural applications while withstanding the long-term effects of water, soil, and corrosive outdoor environments.

CONSTRUCTION — The fixture utilizes a solid cast brass body and brass cover in an antique brass finish for excellent corrosion resistance and longevity. A flat, heat-resistant glass lens protects the lamp, and a watertight, IP65-rated housing ensures reliable operation in wet locations. A molded plastic mounting sleeve is included for secure inground installation. The lamp is able to be replaced in the field MUST BE ORDERED SEPARATELY.

OPTICAL SYSTEM — The LVBRWL is designed to operate with MR16 LED lamps (by others) up to a maximum of 50W, offering flexibility in beam spread, wattage, and color options depending on the lamp source selected. The lamping system is field-serviceable, allowing quick replacement or upgrades during maintenance.

ELECTRICAL SYSTEM — (By others) low-voltage LED MR16 lamp, GU5.3 bi-pin base. Compatible with 12–24V MR16 LED lamps, provided the low-voltage system operates at <30V maximum per UL 2108 and UL 1838. Fixture operates on 12V AC/DC systems and is suitable for MR16 lamps up to 50W maximum. Use only with low-voltage landscape power units not exceeding 25A at 15V.

MOUNTING — The fixture installs inground using the included molded plastic housing sleeve. It is designed specifically for use with low-voltage landscape lighting systems where cable runs are typically buried less than 6 inches below the surface for safe and reliable operation.

LISTINGS — cETLus Listed for wet locations.

ORDERING INFORMATION

Choose the bold face options for the appropriate luminaire configuration for your application and enter on the line above each fixture attribute. Accessories may be factory installed, depending on the particular accessory chosen, but still be ordered as a separate line item.

EXAMPLE:
LVBRWL

SERIES	DESCRIPTION
LVBRWL	Solid Brass Fixture, PVC In-Ground Sleeve, GU5.3 Bi-Pin Socket, 12V AC/DC Low Voltage (Lamp not included)

ACCESSORIES (Order as separate line items)

Transformer Enclosures:

LMSEB02 — 300W Dual-Circuit Low Voltage Transformer Enclosure

Low Voltage Power Supplies (Recommended):

TLLET75 — 75W Low Voltage AC Transformer (120V → 12V)

TLLET150 — 150W Low Voltage AC Transformer (120V → 12V)

LAMPS (Order as separate line items)

LMP LED 7 MR16xxDxxxxK[1] — LED 7W 12V MR16

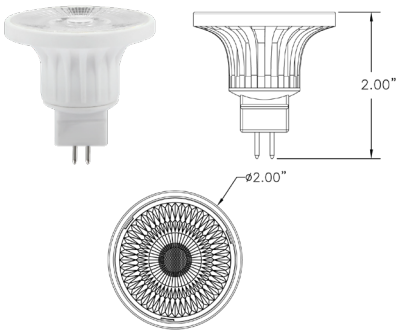
NOTES

[1] = xxD could be 15, 24, 36, 60, or 120 (Bean Angle)
xxxxK could be 2700, 3000, 4000, or 5700 (CCT)

See chart below, or MR16 specification sheet for details.

Lamp Type	Beam Angle	CCT
LMP LED 7 MR16	15D	2700K
LMP LED 7 MR16	15D	3000K
LMP LED 7 MR16	24D	2700K
LMP LED 7 MR16	24D	3000K
LMP LED 7 MR16	36D	2700K
LMP LED 7 MR16	36D	3000K
LMP LED 7 MR16	60D	2700K
LMP LED 7 MR16	60D	3000K
LMP LED 7 MR16	60D	4000K
LMP LED 7 MR16	60D	5700K
LMP LED 7 MR16	120D	2700K
LMP LED 7 MR16	120D	3000K
LMP LED 7 MR16	120D	4000K
LMP LED 7 MR16	120D	5700K

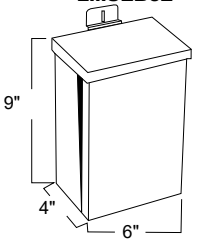
LMP LED 7 MR16 (not included)



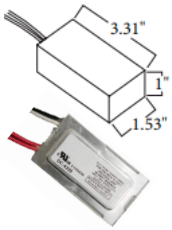
DIMENSIONS

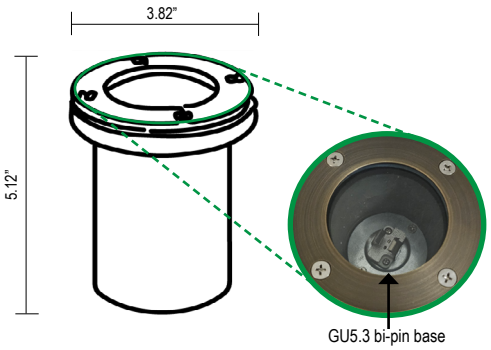
Dimensions shown are for fixture bodies only. Mounting options must be ordered separately.

LMSEB02



TLLET





WIRING SUGGESTIONS

To reduce voltage drop, place the transformer in a central location and split cable runs into multiple directions instead of one long run. Use **direct-burial, stranded, pure-copper cable** for all low-voltage landscape installations.

Techlight recommends **no more than a 2-volt drop** at the final fixture.

RECOMMENDED WIRE GAUGE & MAX RUN LENGTH

12V Systems	10 AWG	12 AWG	14 AWG	16 AWG
0–20 VA	1860’	1150’	730’	450’
40 VA	930’	580’	370’	230’
60 VA	620’	390’	240’	150’
80 VA	470’	290’	180’	110’
100 VA	370’	230’	140’	90’

RECOMMENDED WIRE GAUGES

12V Systems
- 12 AWG – Standard for most runs
- 10 AWG – Long runs or higher-load zones
- 14 AWG – Short runs only

24V Systems
- 14 AWG – Suitable for many medium runs
- 12 AWG – Recommended for main trunk lines
- 10 AWG – Very long runs only

VOLTAGE DROP FORMULA

(**TOTAL VA LOAD** x **CABLE LENGTH**) / CABLE CONSTANT = VOLTAGE DROP

TOTAL VA LOAD - Sum of transformer VA assigned to the cable run.
CABLE LENGTH - Length of cable in feet from transformer to the last fixture of the run.

WIRE SIZE	12V CABLE CONSTANT	24V CABLE CONSTANT
#12	7500	15000
#10	11920	23840

NOTES

- Use transformers with multiple voltage-tap outputs (12V–15V) when compensation for long runs is required.
- For transformer sizing, follow the 80% load / 20% overhead guideline.

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