

Moon Visions Lighting

2018-2019 Product Guide

Quality lighting since 2008



MADE IN



U. S. A.



214.393.7407

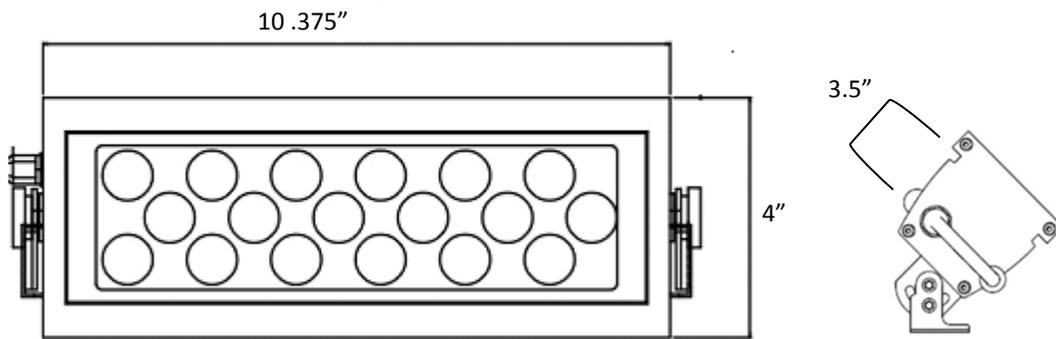
www.moonvisionslighting.com



New Light Bar Series!



- UL Listed under UL Standard 1598
- Certified to CSA Standard
- 1668 lumens in 5000K
- IP66 Wet Location
- Rated for 50,000 hours
- Standard finish BLK only
- Limited 5 year warranty
- 12VAC required—see page 6
- Not dimmable



Mounting Accessories:

See also page 5



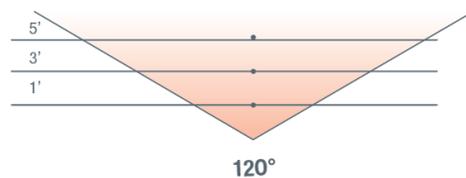
Tree Mount



Tree Mount Box



LGS



Ordering Guide for 12VAC Light Bars

Fixture	Wattage	Voltage	Color Temp	Mount
LB10	22W	12VAC	3500K	TM
			5000K	TMB
				LGS

Example: LB10-22W-12V-3500K-LGS



BR40 22W LED Bullet Series



BR40 Downlight includes:

- 380 alloy cast aluminum Duralune™ Electrocoated bullet
- 10" angled downshield
- Tree Mount with all stainless hardware included
- Specify 12V for GU24 socket, or 120V for E26 socket
- Finish options: Textured Bronze (BZ) or Hartford Green (HG)



BR40 Uplight includes:

- 380 alloy cast aluminum Duralune Electrocoated bullet
- 4" angled cast aluminum upshield with convex glass lens & silicone gasket
- Specify 12V for GU24 socket, or 120V for E26 socket
- Finish options: Textured Bronze (BZ) or Hartford Green (HG)
- Mounting sold separately—see page 5 for options



Tree Mount:

- 380 alloy cast aluminum with Duralune Electrocoating
- Includes all mounting hardware: (2) 4" stainless bolts, (4) 1/4-20 nuts, galvanized back plate & stainless knuckle set screw
- Tree Mount included in all downlight kits, but sold separately for uplights
- Finish options: Textured Bronze (BZ) or Hartford Green (HG)

22W LED:



- 50,000 Hour expected life; 3 year warranty with date code attached
- Built-in fan for maximum heat dissipation
- Patent-pending rubber stabilizer included
- Not dimmable
- 5000K Cool White in 40° and 25°; 3500K Warm White in 40°
- Available in 120V or 12V
- Lumens: 1900 (5K) / 1700 (3.5K)



PAR38 Mercury Vapor Green, Overall Spread and Diffused Lens Kits available. See p.5 for options.

Ordering Guide for BR40 LED Kits

Wattage	Voltage	Down/Up Shield	Tree Mount	Finish	Cool White/ Warm White	Beam Spread
22W	12V	D	TM	BZ	CW	40
	120V	U		HG	WW	25

Example: 22W12VDTMBZCW40 = 22W 12V Bronze Downlight in 5000K 40°



BR30 14W & 7W LED Bullet Series



BR30 Downlight includes:

- 380 alloy cast aluminum Duralune™ Electrocoated bullet
- 8" angled downshield
- Tree Mount with all stainless hardware included
- Specify 12V for GU24 socket, or 120V for E26 socket
- Finish options: Textured Bronze (BZ) or Hartford Green (HG)



BR30 Uplight includes:

- 380 alloy cast aluminum Duralune Electrocoated bullet
- 3.5" angled cast aluminum upshield with convex glass lens & silicone gasket
- Specify 12V for GU24 socket, or 120V for E26 socket
- Finish options: Textured Bronze or Hartford Green
- Mounting sold separately—see page 5 for options



Tree Mount:

- 380 alloy cast aluminum with Duralune Electrocoating
- Includes all mounting hardware: (2) 4" stainless bolts, (4) 1/4-20 nuts, galvanized back plate & stainless knuckle set screw
- Tree Mount included in all downlight kits, but sold separately for uplights
- Finish options: Textured Bronze (BZ) or Hartford Green (HG)



14W & 7W LED:

- 50,000 Hour expected life; 3 year warranty with date code attached
- Built-in fan in 14W lamp for maximum heat dissipation
- Not dimmable
- 14W—5000K Cool White in 40° and 25°; 3500K Warm White in 40° and 15°
- 7W—5000K Cool White in 40° and 25°; 3500K Warm White in 40°
- Available in 120V or 12V
- Lumens: 14W-1400 (5K) 1300 (3.5K); 7W-655 (5K) 600 (3.5K)



PAR30 Mercury Vapor Green, Overall Spread and Diffused Lens Kits available. See p.5 for options

Ordering Guide for BR30 LED Kits

Wattage	Voltage	Down/Up Shield	Tree Mount	Finish	Cool White/ Warm White	Beam Spread
14W	12V	D	TM	BZ	CW	40
7W	120V	U		HG	WW	25
						15

Example: 14W12VDTMHG CW40 = 14W 12V Hartford Green Downlight in 5000K 40°





BR20 5W, 2.5W & 1.5W LED Bullet Series



BR20 Downlight includes:

- 380 alloy cast aluminum Duralune™ Electrocoated bullet
- 6" angled downshield
- Tree Mount with all stainless hardware included
- Specify 12V for GU24 socket, or 120V for E26 socket
- Finish options: Textured Bronze (BZ) or Hartford Green (HG)



BR20 Uplight includes:

- 380 alloy cast aluminum Duralune Electrocoated bullet
- 3" angled cast aluminum upshield with convex glass lens & silicone gasket
- Specify 12V for GU24 socket, or 120V for E26 socket
- Finish options: Textured Bronze (BZ) or Hartford Green (HG)
- Mounting sold separately—see page 5 for options



Tree Mount:

- 380 alloy cast aluminum with Duralune Electrocoating
- Includes all mounting hardware: (2) 4" stainless bolts, (4) 1/4-20 nuts, galvanized back plate & stainless knuckle set screw
- Tree Mount included in all downlight kits, but sold separately for uplights
- Finish options: Textured Bronze (BZ) or Hartford Green (HG)



5W, 2.5W & 1.5W LED:

- 50,000 Hour expected life; 3 year warranty with date code attached
- Not dimmable
- 5000K Cool White in 40° and 25°; 3500K Warm White in 40°
- 3500K Warm White in 15° for 5W only
- Available in 120V or 12V
- Lumens: 5W-440 (5K) 388 (3.5K); 2.5W-220 (5K) 194 (3.5K)
1.5W-110 (5K) 97 (3.5K)



PAR20 Mercury Vapor Green, Overall Spread and Diffused Lens Kits available. See p.5 for options.

Ordering Guide for BR20 LED Kits

Wattage	Voltage	Down/Up Shield	Tree Mount	Finish	Cool White/ Warm White	Beam Spread
5W	12V	D	TM	BZ	CW	40
2.5W	120V	U		HG	WW	25
1.5W						15*

Example: 5W120VUBZWW40 = 5W 120V Bronze Uplight in 3500K 40°



Mounting Accessories

TM Tree Mount

- All mounting hardware included:
 - (2) 4" Stainless Tree Bolts with (4) 1/4 x 20 nuts
 - (1) Galvanized back plate
 - (2) Back plate mounting screws
 - (1) Knuckle mounting stainless screw
- Comes standard with all downlight kits unless specified
- Available in textured finishes Hartford Green (HG) or Bronze (BZ)



TMB Tree Mount Box

- All mounting hardware included:
 - (2) 4" Stainless Tree Bolts with (4) 1/4 x 20 nuts
 - (1) Galvanized back plate
 - (2) Back plate mounting screws
 - (1) Knuckle mounting stainless screw
- Larger box with Neoprene Gasket
- 1/2-14 NPT inlet thread for cord grip/seal tite attachment
- For low voltage applications, use TMB box to house RS12 LED transformers
- Available in Textured Bronze (BZ) finish standard; longer lead time for HG



Small Ground Stake (SGS)

- Two-piece low voltage mounting stake
- PVC stake 1 3/8" O.D. x 9 1/2" long
- Integral 1/2" NSP fitter
- Includes ABS removable 1/2" NPS cap with screws
- Recommended for use with BR20 12 volt series



Large Ground Stake (LGS)

- Suitable for Wet Locations
- Heavy wall, impact resistant Schedule 40 PVC
- Die Cast Aluminum Cap—Electrocoated & powder coated in Textured Black finish
- Threaded 1/2" NPT hub
- Slanted bottom accepts conduits of different depths
- 3" O.D. x 19" H
- Required for all BR series in 120 volt, and recommended for BR30 14 watt and BR40 22 watt series in 12 volts



Optional Lenses & Louvers



OSL

Overall Spread

MV

Mercury Vapor
Green Lens

DIF

Diffused Lens

INL

Internal Louver





Low Voltage Transformers



MVX50-SS & MVX100-SS Transformer w/ Cord & Plug

Available in both 50W & 100W, these stainless 12VAC transformers are perfect for low wattage LED systems. They are timer-ready and accept most plug-in timers.

Comes with 6' weatherproof grounded power cord and manually resettable circuit breaker for overload and short circuit protection. Removable door slides on and off for ease of entry.

Dimensions: 10.75" x 5" x 4"



TN111RM Timer

Plug-in analog timer sold separately. Outdoor rated with 2 on-off settings per day.

MVX-HW-50, MVX-HW-100, MVX-HW-150 & MVX-HW-200



Hardwire series available in 50W, 100W, 150W, and 200W 120V-12VAC. Stainless steel enclosures supplied with (2) 1/2" conduit holes and (1) 1/2" inlet with plugs in bottom panel, plus 2 side panel 1/2" conduit holes with plugs. Mounting plate with hardware included. Removable door slides on and off for ease of entry.

Dimensions: 5" x 7" x 3.25"

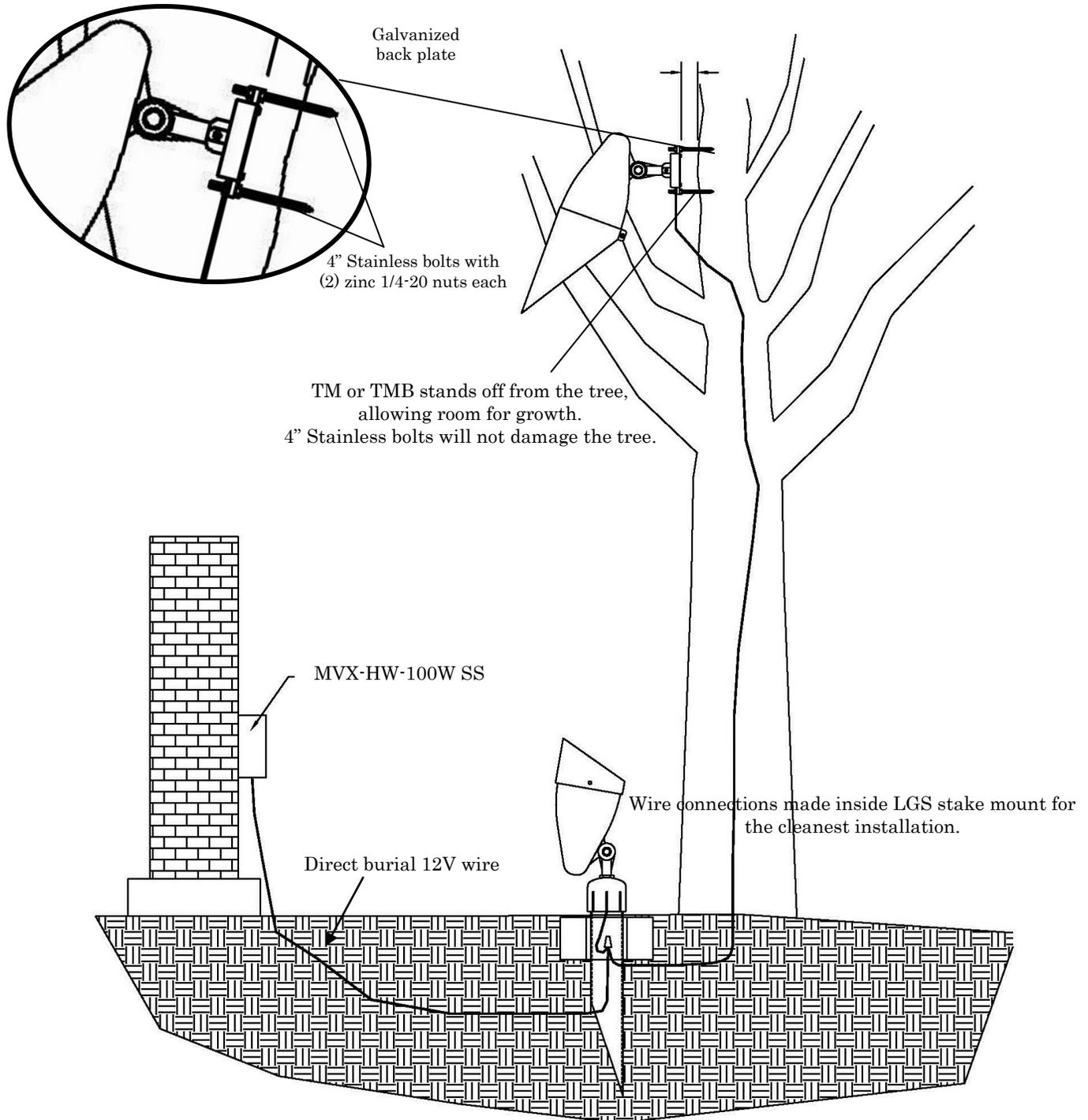


RS12-30W/60W LED Electronic Transformer

Converts 120V instantly at the spot to 12VAC and fits conveniently in a TMB Tree Mount Box or LGS Large Ground Stake. It is not weatherproof and must be protected.

Dimensions: 2.20" x 1.23" x .75"

12V LED Installation



See page 5 for mounting accessories: TM Tree Mount, TMB Tree Mount Box and LGS Large Ground Stake.

Always refer to local, state and national code requirements before installation.

Designing with Moon Visions LEDs

Downlighting tips:

- Mount as high in the tree as you can—then go 10' higher and it's perfect!
- Position shields so that the lamp is not visible from the ground to avoid glare.
- Do not place fixtures too close together, but instead spread fixtures out in the canopy.
- Aiming straight down from the top of a tall tree gives soft subtle shadows and moonlight patterns on the ground.

Uplighting tips:

- Be wary of fixture placement regarding tree roots, landscapers, and vandals.
- Do not aim fixture past a 90° vertical to ensure water will not collect in back of shield. Fixtures should tilt forward to allow water runoff.
- Using 2 uplights on either side of the trunk will add depth and texture.
- Mount uplights at least 3 feet from the tree trunk to avoid a hot spot at the base.

Which Moon Visions LED do I use?		
<u>Mercury Vapor Wattage</u>	<u>LED Wattage</u>	<u>Tree Height</u>
175W	22W	45' +
100W	14W	30-45'
50W	7W	20-30'
50W	5W	10-20'
—	2.5W	Less than 10'

*This is just an approximation to use as a guide. Canopy size, type of tree, and ambient light on the property should also be considered.

Moon Visions Lenses:

- Adding the Mercury Vapor (MV) green lens to the 5000K LEDs will create a moonlight effect with a light temperature of 5500K
- Overall Spread Lens (OSL) widens the beam spread from 40° to almost 80°
- Diffused lens (DIF) both softens and spreads out the light
- Fabricated lens clips required for 22W PAR38 and 14W PAR30 only. Each will hold up to two lenses at a time.



Frequently Asked Questions

- **What size transformer do I need for the 12V LEDs?** The 12VAC LEDs require a remote transformer. As with any low voltage installation, simply add up the number of watts you are using and purchase the transformer accordingly. Since the wattages are 1.5W, 2.5W, 5W, 7W 14W or 22Ws, it won't take much! Our LEDs operate anywhere from 8VAC-14VAC so be careful when using other manufacturer's multi-tap transformers.
- **Will these 12V LEDs work on an electronic transformer?** YES! Our LED lamps will work on both a magnetic and electronic transformer. Please note: when using the electronic transformer (RS12), the LED lamp must be within **25 feet** of the transformer.
- **Are these lamps replaceable in the field if I have a failure?** YES! If for any reason our PAR LED's fail, they can be replaced quite easily in the field unlike most manufacturers who have built-in LED modules in their fixture. If you do have a failure, we will test the LED engine and the LED source (12V or 120V) and only replace what is necessary.
- **What kind of warranty do these LED lamps have?** THREE years on the Moon Visions LED lamps WITH Moon Visions fixtures. They are rated at 50,000 hours, meaning they will still be operating at 70% light output. A date code is adhered to each lamp as it leaves the factory to insure proper warranty. **Note: We do not warranty our LEDs in any other manufacturer's light fixtures.**
- **Do LED lights attract bugs as much as other light sources?** YES! Bugs like light; therefore they will be attracted to LEDs as much as any other source. Because our LEDs have open vents in the back to allow for air circulation, we fill our bullet knuckles with silicone to insure that bugs cannot enter the fixture from the back. This also keeps moisture and other outdoor elements from siphoning in from the knuckle.
- **How much energy does LED lighting save compared to halogen or mercury vapor lighting?**
The standard formula for calculating energy savings is:



$$\frac{\text{Old Watts} - \text{New Watts}}{1000} \times \text{Hours in Use} \times \text{Energy Rate} = \$ \text{ Savings}$$

So for example, replacing (8) 100 watt lights with (8) 14 watt LED lamps, burning 8 hours a night at \$.12/kwh (typical TXU rate):

$$.688 * 8 * .12 = \$.66 \text{ savings per day, which is approximately } \$241.00 \text{ a year.}$$

The Moon Visions Difference: DuraLune™ Electrocoating



Why have a 50,000 hour LED lamp if the fixture will look like this in two years? An LED lamp rated at 50,000 hours, operating 8 hours a day, has a hypothetical 17 YEAR life. You need a fixture that has this same life.

Moon Visions Lighting takes a special step in production to have an exclusively protected **DuraLune™ Electrocoating** applied before the powder coat finish. Electrocoating is a process in which an epoxy “paint” becomes molecularly bonded to the fixtures and essentially becomes part of the fixture itself. It provides total protection inside and out because every crevice, hole, thread and recess is covered.

Cast aluminum is a preferred material to work with in outdoor lighting. It is lightweight, cost effective and an impressive dissipater for heat. By electrocoating our fixtures, we ensure that our fixtures will last as long as any brass or copper fixture—but much lighter in weight and cost.

Other items that are electrocoated:

- manhole covers
- mercury marine outdrives
- the undercarriage of automobiles
- military trucks

...it is a perfect fit for outdoor lighting!



Moon Visions bullets shown with the **DuraLune™ Electrocoating** applied. Notice even the threads are protected.



Our Trademarked painting method which uses an electrical current to deposit paint.





Find us on www.CADdetails.com for all latest cut sheets, data, videos and 3D drawings.



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