



www.lightrail3.com (877) 674-9294

A Guide to Moving your Light



**Less Energy
Save Money
Less Heat
Higher Yields**

**Bringing Light to the Shadows
Since 1986**

Why Move

← Increased Light Coverage →

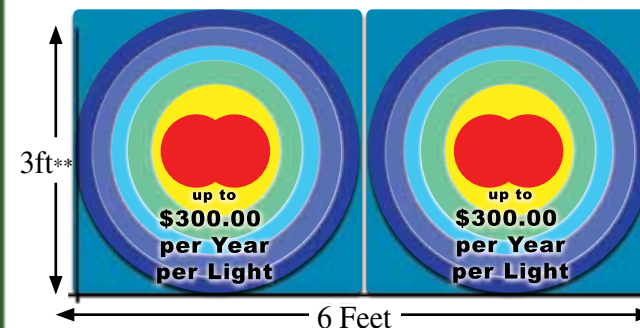


Supply your garden **with** even coverage, eliminating lumen hot spots, **while** maximizing the power of your bulb.

Moving one light over 6 feet should increase your light's area of coverage by approximately 1.6. Use less lights to cover the same distance but keep the correct intensity by running the light closer. Depending on your light you can save as much as \$300 per year and have better results.

Stationary 2 Lights over 6 Feet

Uneven Coverage, More Bulbs, More Electricity, More Heat



**Results depend on light, reflector, and environment variables

What is Intelli-Drive?

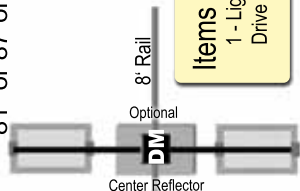


A fully integrated digital circuit gives you the control. An adjustable time delay allows you to "fine tune" the pause at each end of the rail to ensure even growth. Intelli-Drive comes on both the Light Rail 3.5 and 5.0.

Sketch out your system

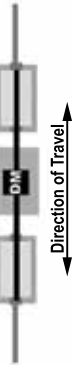
1 Crossbar - 3 Lights

Travel Distance Covered:
60" (5 Feet) by
81" or 87" or 93"



- Items Needed**
- 1 - Light Rail 5 Drive Motor Kit

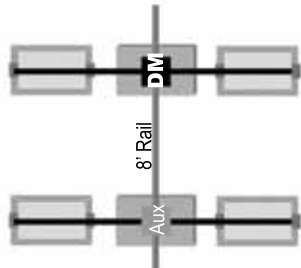
Fore and Aft Crossbar Mounting



Additional Item Needed:
Fore and Aft Crossbar Mounting Kit

2 Crossbar - 6 Lights

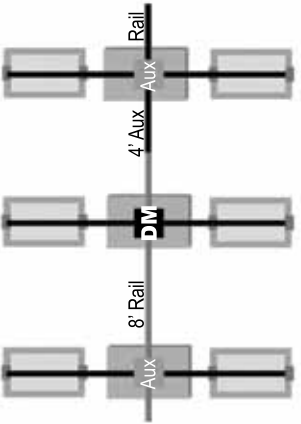
Travel Distance Covered:
96" (8 Feet) by
81" or 87" or 93"



- Items Needed**
- 1- Light Rail 5 Drive Motor Kit
 - 1- Add-A-Bar Kit

3 Crossbar - 9 Lights

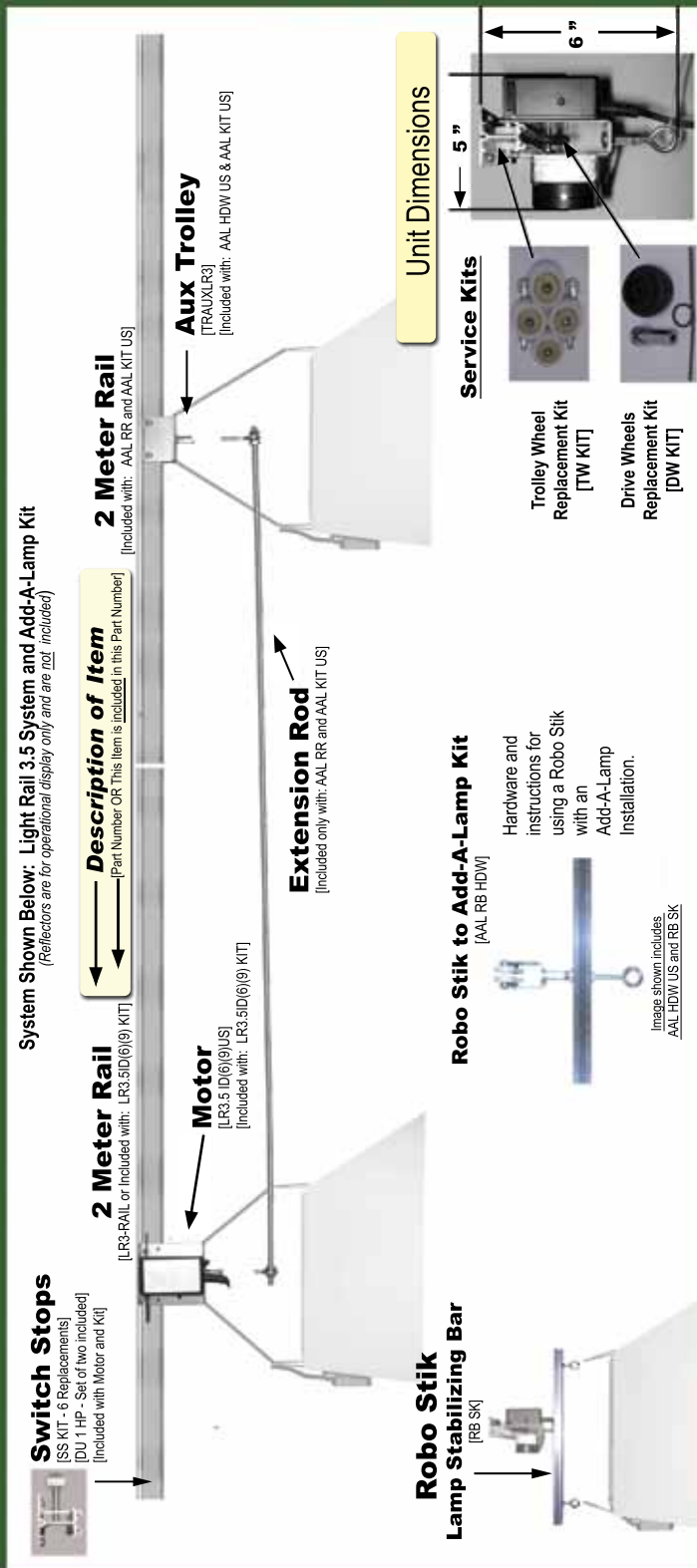
Travel Distance Covered:
144 inches (12 feet) by
81" or 87" or 93"



- Items Needed**
- 1- Light Rail 5 Drive Motor Kit
 - 2- Add-A-Bar Kits
 - 1- 4 foot Light Rail 5 Auxiliary Rail

Light Rail 3.5

Hardware Reference and Product Code Guide



Light Rail 5.0 Commercial Drive

The Light Rail 5 Commercial Drive is designed for large scale gardens. The Light Rail 5 Motor Kit comes with a 4RPM commercial drive motor, 8 feet of rail, adjustable crossbar, and mounting hardware. The system expands using kits to meet your garden's needs. Additional crossbars are added with the Add-A-Bar kit, and additional rails are available in 4 foot sections. The next page shows a complete 2 bar system using the Light Rail 5 kit and Add-a-Bar kit.



Light Rail 5 Kit [LR5 ID4 US]

Everything you need to get started.
Ready to run with 3 lights.

- Contents of Kit:**
- 4RPM Commercial Drive Motor
 - 8' Heavy Duty Aluminum Rail
 - Adjustable Crossbar
 - Mounting Hardware
 - Instructions



Add-A-Bar Kit [AAB KIT LR5]

Additional crossbars for your system.
Each crossbar can hold up to 3 lights

- Contents of Kit:**
- Adjustable Crossbar (81", 87", 93")
 - Light Rail 5 Auxiliary Trolley
 - Sectioned Push-Pull Rod
 - Mounting Hardware
 - Instructions



4 Foot Aux Rail [LR5 AUX RAIL]

Additional rail sold in 4ft sections.
Needed for a 3 crossbar systems.

- Contents of Kit:**
- 4 Foot Section of LR5 Rail
 - Mounting Hardware
 - Instructions



LR5 90° Crossbar Mounting Kit [LR5 CBMK]

Includes Hardware to Turn Crossbar 90 Degress

Refer to Setup Configurations for Layout Help

Light Rail 5.0

Hardware Reference and Product Code Guide



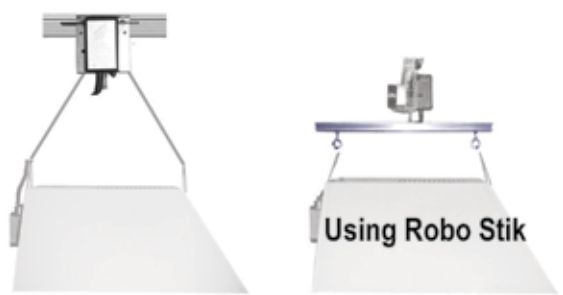
System Shown includes Light Rail 5 Kit and Add-A-Bar Kit

Common Questions

The unit comes with either 6 feet or 8 ft.
Do I have to run this length or can I change it?
Yes. The 3.5 and 5.0 can run any desired length.

Does the Light Rail 3.5 and 5.0 use the same rail?
No, both models use different rails.

Methods for hanging the light from the LR 3.5?



How much weight can it carry?
Our recommended maximum weight capacity is:
3.5 - 35lbs 5.0 -100lbs

Can I hang my ballast on the mover?
This will affect the performance and life of your mover. We recommend using the mounting device on your ballast and hang the ballast in the center of your garden.

Can I power my unit from my ballast?
This will burn out the circuit board.

Replacements for missing or lost hardware?
Visit <http://www.lightrail3.com/hardware>

My Light Rail 3.5 is out of warranty. Can I get the unit refurbished by the factory?
You can return it to your retail store or
Visit <http://shop.lightrail3.com/>

For more information and more answers visit:
www.LightRail3.com

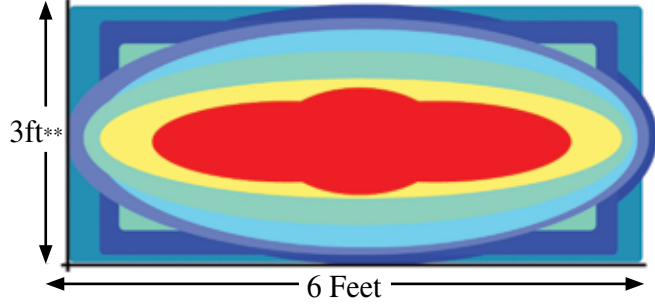
your Light?

Get Light to all Parts of your Plant

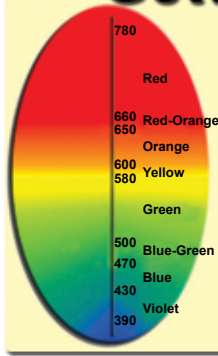


Moving your grow light offers significant advantages. By distributing light at a greater range of angles at the correct intensity, more of the plant canopy is covered during the photoperiod. So the maximum Leaf Area Index can be achieved. Simply put, a moving Grow Light helps more leaves absorb more light energy, and you benefit.

Light Rail with 1 Light Over 6 Feet Even Coverage, Less Bulbs, Less Electricity, Less Heat



Getting Technical



You could be losing as much as 60% of your light's energy because static lighting lacks the ability to diversify itself by maximizing your plants energy absorbing surfaces at the correct intensity. Moving your light offers considerable flexibility in terms of plant to lamp tolerance and plant spacing. Provide light intermittently on more leaves during 40% of the photoperiod at the correct intensity, so the maximum LAI (Leaf Area Index) can be achieved.

Light Rail 3.5 Intelli-Drive

Light Rail 3.5 linear light mover. Runs on only 5.5 watts. Below are some recommended configurations. Use the reference on the next page to help build your system.



6' Linear Light Moving System

Cycle time down and back over 6 feet is between 6 and 7 minutes, as you adjust the 0-60 sec end of rail time delay.

- Items Needed
- 1-6 RPM Motor [LR3.5ID6 US]
 - 1-2 Meter Rail [LR3-Rail]
- OR
- 1 - 6 RPM Complete Kit [LR3.5ID6 KIT]
 - (2 Meter Rail and Motor - product pictured below ↓)

9' Linear Light Moving System

Cycle time down and back over 9 feet is between 5.5 and 6.5 minutes, as you adjust the 0-60 sec end of rail time delay.

- Items Needed
- 1-10 RPM Motor [LR3.5ID9 US]
 - 1-2 Meter Rail [LR3-Rail]
 - 1-1 Meter Extender Rail [LR3 RX]
- OR
- 1 - 10 RPM Complete Kit [LR3.5ID9 KIT]
 - (2 Meter Rail and Motor)
 - 1-1 Meter Extender Rail [LR3 RX]



Easy Ship Dimensions: 41" x 6" x 5"

12' Add A Lamp One Motor - Two Light System



- Move 2 lights in line over 12 feet. Adjustable run length and reflector spacing. Completed add-a-lamp system pictured right panel →
- Items Needed (Light Rail 6' or 9' System) &
- 1- Add-A-Lamp Kit [AAL KIT US]
- OR
- 1 - Add-A-Lamp Hardware [AAL HDW US]
 - 1 - Add-A-Lamp Rod & Rail [AAL RR]



Light Rail 3.5 Accessories

- Robo Stik Lamp Stabilizing Bar** [RB SK]
Balance and stabilize the LR3.5 using a rectangular reflector running perpendicular to the rail.
- Auxiliary Trolley** [TRAUXLR3]
Included with the Add-A-Lamp kit, can be used to hold an additional light or cord/duct festooning.
- Add-A-Lamp to Robo Stik** [AAL RB HDW]
Hardware and instructions to install your Robo Stik on the non-motor side of your add-a-lamp

Which Light Rail is right for me?

Helping you choose the right system



Light Rail 3.5

Ideal for rectangular growing areas where 1 light is "just not enough" or 2 lights would normally be used. The 3.5 can scale down to fit even the smallest garden. Customers love the scalability, power savings and service. It gives more control over individual lights, running on different seasons.

Feature Comparison	Light Rail 3.5 Consumer Duty
Weight Limit and Design Duty	35 LBS, 6 Foot Garden Consumer Duty
Number of Lights	Ready for 1 Light (Max 2 lights using the Add-A-Lamp Kit)
Multiple Light Positioning	Linear Only
Mix Spectrums	Linear Only. Not Designed for Mixing Spectrums
Motor	5 Watt / 6 or 10 RPM
Warranty	2 Year Factory Warranty

Light Rail 5.0



Ideal for large open gardens with at least 8' x 8' of space. Customers love the amount of coverage with one motor. It is fully scalable, you can start with 1 crossbar included with the motor then add more crossbars in the future. Hang a center light for additional coverage; great for mixing spectrums. Limited Lifetime Warranty.

Feature Comparison	Light Rail 5 Consumer Duty
Weight Limit and Design Duty	100 LBS, 8 Foot Garden Consumer Duty
Number of Lights	Ready for 3 Lights (Additional Lights*)
Multiple Light Positioning	Mount 2 Lights Linear or Side-by-Side and more lights forward and aft*
Mix Spectrums	Crossbar Included for Side-by-Side or Linear 2 light operation. Great for mixing spectrums
Motor	5 Watt / 4 RPM Super Duty
Warranty	Limited Lifetime Warranty

* Additional Lights Added Forward and Aft using LR5 Lights Expansion Kits sold separately