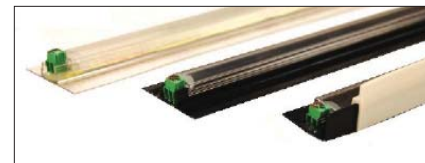


GRACE Light Installation Instructions

Installing Grace Light

The Grace Light is a low-voltage direct-current light fixture that is safe for indoor and outdoor use. While the Grace Light does not require a certified electrician for installation, you may wish to consult with a professional installer if you are not familiar with basic low voltage wiring. For typical installations follow these suggested steps:

- 1) Confirm fixture and control locations and run low voltage wiring
- 2) Connect fixtures to wiring and test system functionality
- 3) Position fixtures using self adhesive tape (attached) to confirm lighting effect
- 4) Permanently fasten fixtures using self-tapping screws (included), staples or polyurethane adhesive
- 5) Dress wiring as required



Power Requirements

Since each Grace Light consumes a small amount of power, a number of fixtures may be powered by a single supply. Consult the power chart for more details. We strongly recommend the use of power supplies offered by The Lighting Division as they include many beneficial features for the long life and designed operation of your Grace Light fixtures. Connection to other power sources may void your warranty.

Voltage Drop

As with any low voltage lighting product, reduced light output can occur if installations do not account for the effect of voltage drop over long runs of fixtures or wire. Since Grace Fixtures are LED, the voltage drop per fixture is far less than other light sources. Most installations do not need to factor in this concern. Long runs and large distances from the power supply (remote location) to fixtures do require consideration of wire gauge and component location. Please contact the reseller if your application exceeds these tables:

Accent				Task		Maximum Continuous Fixture Run per Drop		Recommended Minimum Wire Gauge	
Bright	Standard	Night Light	Wattage	Fixture	Wattage	Grace Fixture Type	Linear Feet	Model	Wire AWG
LBH-055	LB-085	TKL-145	0.4	LBT-060	2.3	Task	12	TLD-6WSI	24
LBH-100	LB-175	TKL-325	0.8	LBT-120	4.5	Accent Bright	30	TLD-24WSI	22
LBH-145	LB-265		1.2	LBT-180	6.8	Accent Standard	60	TLD-30WSO	22
LBH-190	LB-355		1.5	LBT-240	9.0	Accent Night Light	90	TLD-60WSO	18
LBH-235	LB-445		1.9	LBT-300	11.3			TLD-75WSO	18
LBH-280			2.3	LBT-360	13.5				
LBH-325			2.7	LBT-420	15.8				
LBH-370			3.0	LBT-480	18.0				
LBH-415			3.4						
LBH-460			3.8						

Wiring Grace Light

Each end of the Grace Light has wiring terminals; however, connection to only one end is required to power a single fixture. You may use any wire suitable for low-voltage direct-current, as the terminal will accept 16-24 AWG. We recommend the use of 16-18 AWG for Grace Task fixtures and 20-24 AWG for Grace Accent fixtures. Note the red mark to one side of the terminal. This indicates the positive voltage wire position. Simply strip 1/4" of the insulation from your wire; insert the wire into the opening immediately below the screw head, and secure by turning the screw clock-wise with a #00 or flat head eyeglass repair screwdriver. When the screw stops turning, tug lightly on the wire to check retention. To remove the wire from the terminal, back out the screw with the screwdriver by turning in the counter clock-wise direction. Secure the ground wire in the same fashion to the other position in the terminal.



When connecting a second Grace Light fixture, you may connect to the opposite end of an adjacent light. Be sure to keep the same wire on the red indication for both lights. End-to-end fixture connections may be done with un-insulated solid wire cut to 9/16" length. Finally to connect power, simply place the stripped end of the power supply wire into the end of an open Grace fixture terminal. The positive power wire from the power supply is either the red wire, or the white lettered/marked wire of the pair. You may choose to connect the power to the first fixture and continue wiring with the power remaining on.

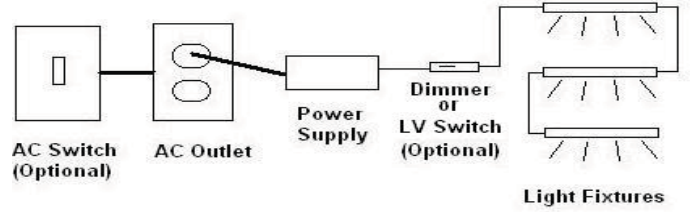


Power supplies from The Lighting Division include intelligent features which aid in the electrical installation of your system. If at any time no lights are no longer on while installing, check the last connection made – it may be reversed or shorted. If the lights blink on and off, the load has exceeded the capacity of the power supply, or a connection just made is reversed.

You can control your Grace Lights by:

- 1) Switching the power on/off to power supply
- 2) Installing a low-voltage switch (TLD-SW1) between the power supply and the fixture(s)
- 3) Installing an under-cabinet dimmer module (TLD-DM1) between the power supply and the fixture(s)
- 4) Installing a wall mount dimmer module (TLD-DM2) between the power supply and the fixture(s)
- 5) Installing a large scale dimmer module (TLD-OTDIM) with most dimming control systems (ie: Lutron)

Typical Installation Layout

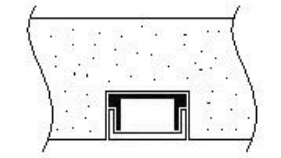


Note: Dimmer controls for 110VAC incandescent lighting are not compatible with Grace Light fixtures

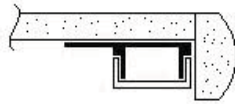
Mounting Grace Light

To mount the Grace Light – simply remove the yellow liner on the adhesive strip and adhere to a clean, dry surface. The adhesive tape is meant strictly for positioning and temporary installation. After confirming the lighting effect, mechanically fasten the fixture using the self-drilling/taping screws provided, or use construction grace staples or polyurethane adhesive (Liquid Nails). A strong tack adhesive foam tape may also be used on with Grace Accent fixtures in situations involving uneven or otherwise difficult surfaces. Using adhesive foam tape with Grace Task fixtures is not recommended. Depending upon fixture enclosure type, one or both of the mounting tabs can be removed by scoring the top side of the tab along the inside edge with a sharp utility knife (see illustration). Side-shield extrusions have only one tab which can be removed. There are small grooves on the underside of the adhesive which once scored; allow the tabs to be easily bent and peeled away. Removing one tab allows the Grace Light to be placed tightly along an inside corner. Removing both tabs creates the ability to recess the light into small pockets. You may bend the tabs to mount in corners.

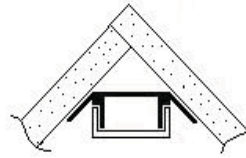
Flexible Mounting Wing Options



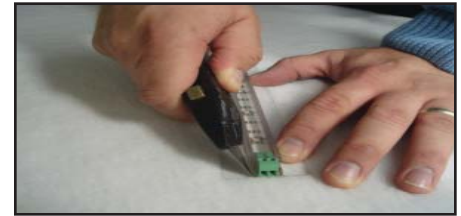
**Recessed in Surface
(Both Wings Removed)**



**Under/Against
Trim Molding
(One Wing Removed)**

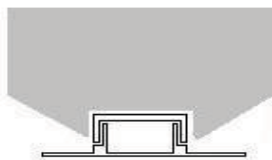


**Inner Corner Mount
(Bend Wings to Position)**

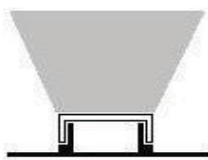


The Side-Shield extrusion has the added feature of being able to control the spread of light on one side. Confirm placement of the fixture while lit prior to mechanical installation. The Light Shade (TLD-SHADE) may be installed after mechanical mounting of the Side-shield fixture and painted with latex or enamel based paint to match décor. The Light Shade is designed to run fixture-to-fixture in order to hide a series of Grace Lights.

Grace Fixture Enclosure Options



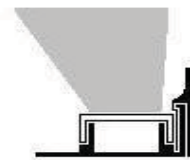
**Standard
Base: Clear
Cover: Clear**



**Directed
Base: Black
Cover: Clear**



**Side Shield
Base: Black
Cover: Clear**



**Side Shield
with Optional
Light Shade**

The Lighting Division



Life in a New Light

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