

LIGHTWAY 6 - INGROUND

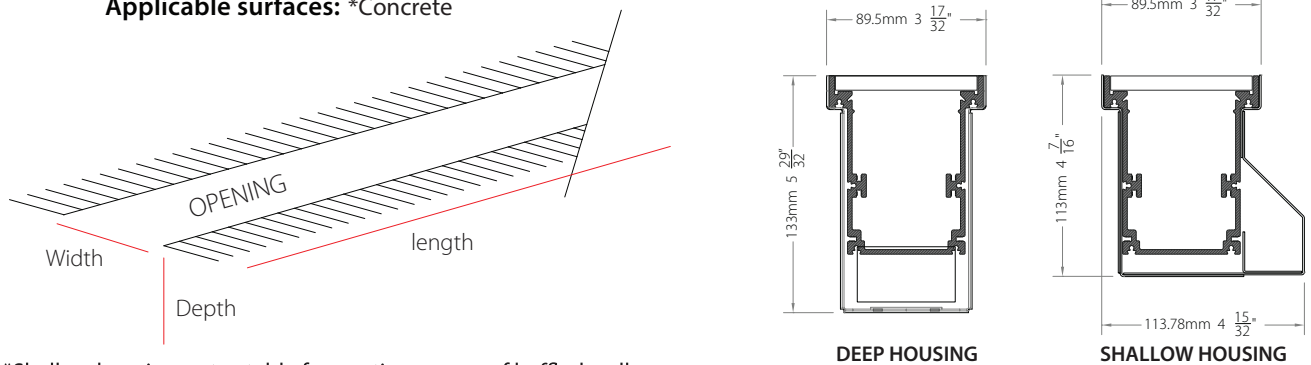
Product Installation Guide

WARNING:
THE SAFETY OF THIS FIXTURE IS GUARANTEED ONLY WHEN COMPLYING WITH THE FOLLOWING INSTRUCTIONS

FOLLOW THE BELOW STEPS TO INSURE A PROPER INSTALLATION

STEP 1: Prepare a hole for the luminaire with the dimensions shown in the table below.

Applicable surfaces: *Concrete

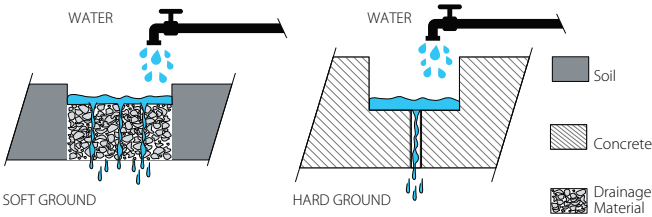


*Shallow housing not sutable for continous runs of baffled wall grazer.

Housing Sizes		Housing Type					
		Deep			Shallow		
		Length	Width	Depth	Length	Width	Depth
UL SYSTEM	1 ft	1 ft-0 ¹⁹ / ₃₂ in	3 ²¹ / ₃₂ in	5 ²⁹ / ₃₂ in	1 ft-2 ⁴⁹ / ₆₄ in	4 ¹ / ₄ in	4 ²⁹ / ₆₄ in
	2 ft	2 ft-0 ¹¹ / ₆₄ in	3 ²¹ / ₃₂ in	5 ²⁹ / ₃₂ in	2 ft-2 ¹¹ / ₃₂ in	4 ¹ / ₄ in	4 ²⁹ / ₆₄ in
	3 ft	2 ft-11 ³ / ₄ in	3 ²¹ / ₃₂ in	5 ²⁹ / ₃₂ in	3 ft-1 ²⁹ / ₃₂ in	4 ¹ / ₄ in	4 ²⁹ / ₆₄ in
	4 ft	3 ft-11 ²¹ / ₆₄ in	3 ²¹ / ₃₂ in	5 ²⁹ / ₃₂ in	4 ft-1 ³¹ / ₆₄ in	4 ¹ / ₄ in	4 ²⁹ / ₆₄ in
	5 ft	4 ft-10 ⁵⁷ / ₆₄ in	3 ²¹ / ₃₂ in	5 ²⁹ / ₃₂ in	5 ft-1 ¹ / ₁₆ in	4 ¹ / ₄ in	4 ²⁹ / ₆₄ in
CE SYSTEM	30 cm	320 mm	93 mm	133 mm	375 mm	108 mm	113 mm
	60 cm	614 mm	93 mm	133 mm	669 mm	108 mm	113 mm
	90 cm	908 mm	93 mm	133 mm	963 mm	108 mm	113 mm
	120 cm	1202 mm	93 mm	133 mm	1257 mm	108 mm	113 mm
	150 cm	1496 mm	93 mm	133 mm	1551 mm	108 mm	113 mm

A proper water drainage system is required with a minimum rate of 0.08 GAL (0.33 Liter) per minute per meter as shown below:

Length	Minimum Drainage Rate
1 ft (30cm)	0.026 gal/min (0.1 l/min)
2 ft (60cm)	0.053 gal/min (0.2 l/min)
3 ft (90 cm)	0.079 gal/min (0.3 l/min)
4 ft (120 cm)	0.105 gal/min (0.4 l/min)
5 ft (150 cm)	0.132 gal/min (0.5 l/min)



WARNING :
FAILURE TO PROVIDE
PROPER DRAINAGE
WILL VOID PRODUCT
WARRANTY



LIGHTWAY 6 - INGROUND

Product Installation Guide

Refer to the table for typical installation parameters.

Optic Type	Distance between wall and fitting.
Grazing	Between 10cm and 15cm (4" and 6") Depending on the wall texture.
Washing	Between 1/5 and 1/6 of the wall height to be washed.
Other	Depending on desired effect.

NOTE:

- 1 -Always wear cotton gloves to avoid fingerprints mark on the product.
- 2 - Make sure to place all dismantled items in a safe and clean area to avoid any possible damage.
- 3 - LED should be protected from any possible electrostatic discharge (ESD) source.

STEP 2: Installation of Cables and Conduit

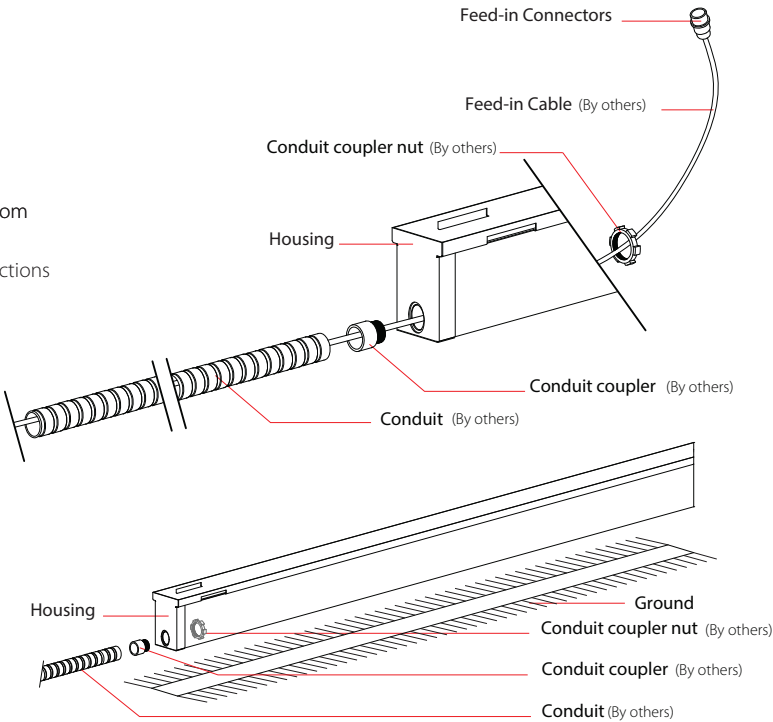
Lay down conduits inside housing hole(s).
Tighten conduits loosely to the housing using couplers.

Run the leader cable and then the jumper cables through conduits.
Leave enough cable length inside the housing to allow easy access from the top of the Housing.
Connect Feed-in Connector to Leader Feed-in Cable as per the instructions provided on Page 5. Provide power and test connections.

See Wiring Details on Page 4 & 5 for reference.

Once the electrical connections have been tested, secure conduits and couplers tightly.

Make sure sealing caps are installed on all opened connectors.



Note: Make sure not to exceed the maximum allowable running length according to the below table:

Maximum running length through 1 feeding input												
System	Voltage	Power										
		L1 10 W/m	L2 15 W/m	L3 22 W/m	L4 30 W/m	L5 42 W/m	P1 20 W/m	P2 30 W/m	P3 42 W/m	M1 28 W/m	M2 40 W/m	M3 56 W/m
UL	120V~ 60 Hz	135 ft	100 ft	70 ft	50 ft	36 ft	70 ft	50 ft	36 ft	54 ft	38 ft	27 ft
CE	220-240V~ 50/60 Hz	62 m	45 m	33 m	23 m	17 m	33 m	23 m	17 m	25 m	18 m	13 m

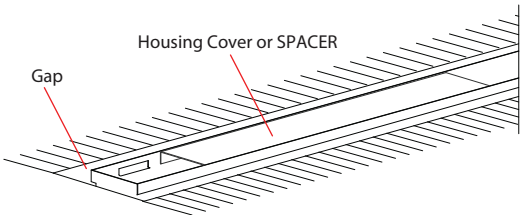
STEP 3: Installation of housing

When installed in an existing slab, make sure to leave at least a 1" (25mm) gap around the housing to secure housing by pouring mortar and filling the gap.

For installation in soft ground or dirt, leave 3" (76mm) to 4" (102mm) gap around the housing to secure with concrete.

Before Laying the housing in the ground make sure to cover it with the temporary pouring SPACER (Housing Cover) provided with housing.
Prevent any debris from getting into the housing.

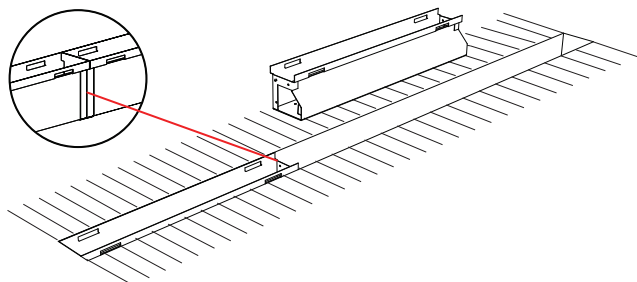
The same above steps apply to the shallow housing as show in figures on the right.



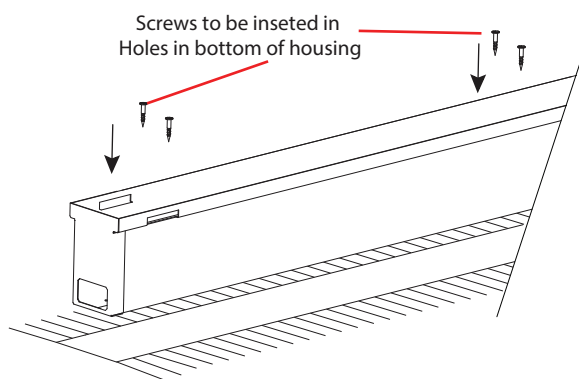
LIGHTWAY 6 - INGROUND

Product Installation Guide

For continuous runs place housings end-to-end making sure no debris falls between the consecutive housings.



When installed in a hard surface (Concrete for example), housing must be anchored with an anchoring system compatible with the surface material. Screws are fastened through the holes in the bottom of the housing.



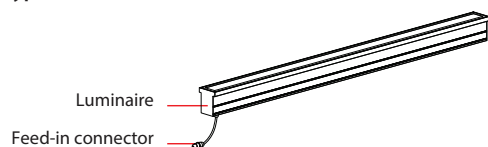
It is imperative to use the Housing Cover (Spacer) during the whole installation process, especially at the time of pouring concrete around the housing or filling the gap around the housing with infill material. The spacer will prevent the housing aperture to be damaged, deformed or to buckle under the weight of the infill.

Pour concrete around the Housing. Then clean the top of the Housing to remove any excess concrete that may prevent cover removal. Concrete should be flush with the top of the blackout.

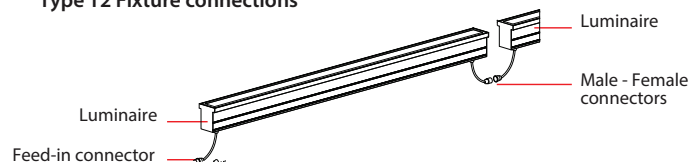
STEP 4: Wiring Instructions

Before beginning the wiring process, double check the type of connection specified. T1 type fixture only have an input, and cannot be used for daisy chained fixtures, continuous runs, Type T2 fixtures have through wiring and are daisy chained.

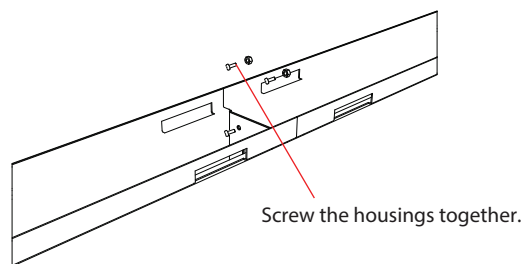
Type T1 Fixture connections



Type T2 Fixture connections

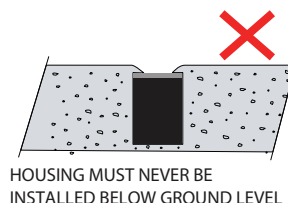
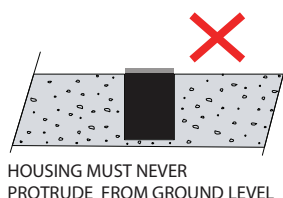


Once the housings are placed in proper locations, secure them together with the screws and nuts provided with housings. Make sure there are no gaps between the housings.



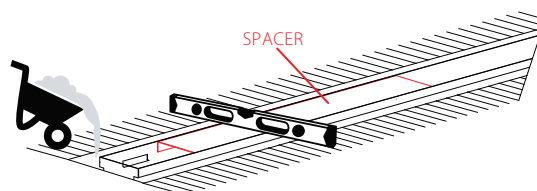
! WARNING :

Housing must be leveled and flushed with finished floor level. Failure to do so will void the product warranty.



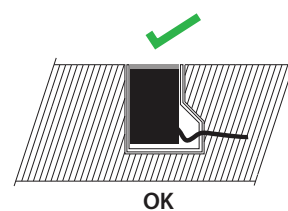
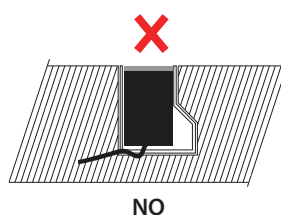
! WARNING :

Failure to use the Spacer can cause the fixture not to fit in place when installed in the housing.



! WARNING :

For Shallow Housing Cables shall be laid in side pocket. Do not place fixture over cable.



LIGHTWAY 6 - INGROUND

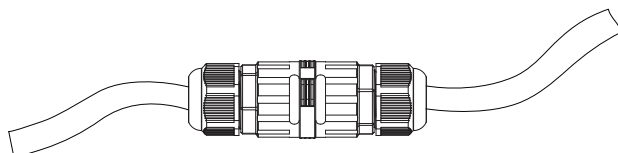
Product Installation Guide

WIRING COLOR CODES								
	GROUND	LINE	NEUTRAL	DIMMED LINE	0-10V +	0-10V -	DALI +	DALI -
UL SYSTEM	GREEN	BLACK	WHITE	ORANGE	RED	GREY	RED	ORANGE
CE SYSTEM	YELLOW/GREEN	BROWN	BLUE	N/A	RED	BLACK	RED	BLACK

LINE-TO-LINE CONNECTOR:

When Provided with Line-to-Line Connectors, fixtures will be Type 2 (Daisy chained) and will have an Input cable and an Output cable with specific length.

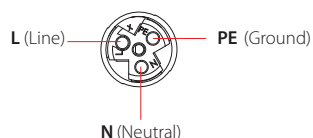
These Cables shall be connected and terminated.



⚠ WARNING :

For 0 - 10 V dimming, the fixture are provided with two (2) cable leads, one with a 3 pin connector for power, and the other with 2 pins connector for dimming wires. Follow below connector labeling for termination of wires.

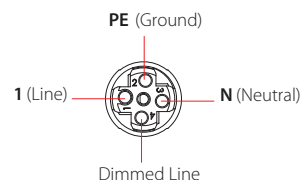
NON-DIM OR PHASE DIMMING



0-10V DIM OR DMX DATA

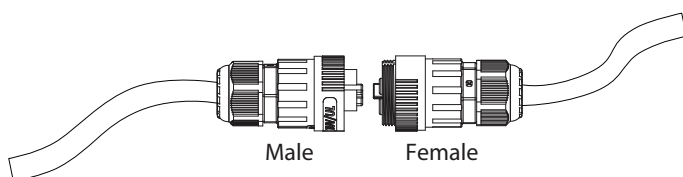


3 WIRES DIMMING



MALE / FEMALE CONNECTOR:

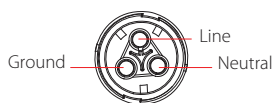
When fixtures are ordered for continuous runs, (Daisy Chained), fixtures will be provided with MALE / FEMALE Connectors. Connectors are factory installed on Input and Output cables leads.



⚠ WARNING :

The connector's pins labeling can be found inside connector, embossed on the wire terminals. Always double check factory wiring order before connecting feeding cables on-site.

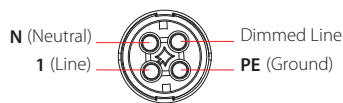
3 Pin Female Connector NON-DIM \ OR PHASE DIMMING



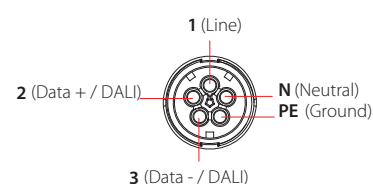
0-10V DIM OR DMX DATA



3 WIRES DIMMING



DALI DIMMING



⚠ WARNING :

Failure to follow the wiring color coding and connectors pin labeling will void the fixtures warranty.

Wiring Instructions for continuous runs (Daisy Chained Fixtures)

Electrical information												
System	Voltage	Max daisy chain length (A minimum of 18 AWG or 0.75 mm² is required)										
		L1	L2	L3	L4	L5	P1	P2	P3	M1	M2	M3
UL	120VAC - 60 Hz	135 ft	100 ft	70 ft	50 ft	36 ft	70 ft	50 ft	36 ft	54 ft	38 ft	27 ft
CE	220VAC - 50/60 Hz	62 m	45 m	33 m	23 m	17 m	33 m	23 m	17 m	25 m	18 m	13 m

WARNING :

- THE FEEDING VOLTAGE SHOULD NOT EXCEED THE SPECIFIED FIXTUE VOLTAGE.
- DO NOT INSTALL THE FIXTURE IF DAMAGED
- UNAUTHORIZED REPAIRS OR MODIFICATIONS WILL VOID WARRANTY