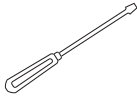


STOP **READ THESE INSTRUCTIONS COMPLETELY AND CAREFULLY**

Tools required



Tape measure



Screwdriver



Electric drill

Components



NRG Streamliner tube

No additional power supplies required. Mounts direct to socket.

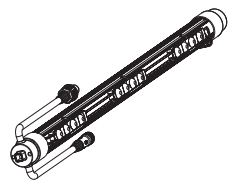


Surge Protector (HPEB-SP10KV)

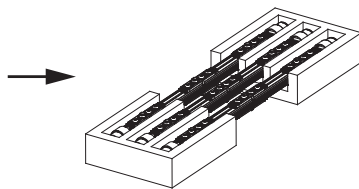
*Sold separately.

- 3-lead surge protector
- Protects against surges according to IEC61643-11
- None load current
- 10kA and 10kV
- IP67-rated for wet locations
- Parallel wiring

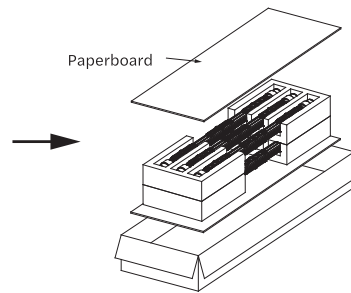
Packaging for tubes 72" and under



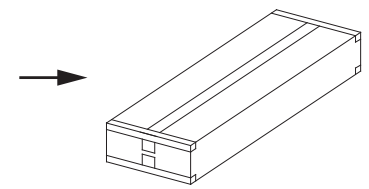
Streamliner tube



Streamliner tube in EPE

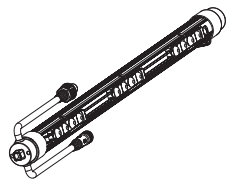


3 pcs/layer, 2 layers/inner case

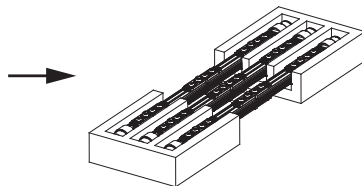


6 pcs tube per case

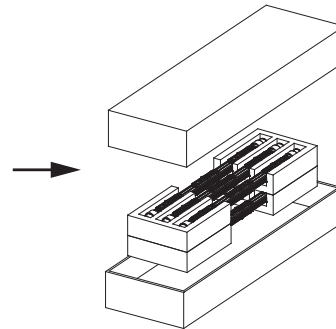
Packaging for tubes 84" and larger



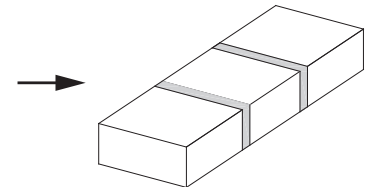
Streamliner tube



Streamliner tube in EPE



3 pcs/layer, 2 layers/inner case



6 pcs tube per case

SKU	Tubes per layer	Tubes per case
HPEB-SL2S36	3	6
HPEB-SL2S42		
HPEB-SL2S48		
HPEB-SL2S60		
HPEB-SL2S64		
HPEB-SL2S72		
HPEB-SL2S84		
HPEB-SL2S96		
HPEB-SL2S108		
HPEB-SL2S117		
HPEB-SL2S120		

NOTE: All materials removed must be disposed of in accordance with applicable local, state, and federal laws.

WARNING: Check polarity. All connections must be WHITE-TO-RED (+) and BLACK-TO-BLACK (-). Reverse polarity connections may damage the LEDs and will void product warranty.

CAUTION: Turn off power to sign before inspecting or removing existing light source. Power must remain off while installing the Concorde Cabinet System.

Installation Guide for HPEB-SL2S(XXX)

Retrofit Installation Guide**NRG Streamliner**

This guide is designed to aid in the installation of HanleyLED's NRG Streamliner. Skilled trades people that are familiar with general construction, electrical, and sign installation techniques should do the installation. Licensed electricians should provide all installation and hook-up of both the primary and secondary input/outputs of the HanleyLED power supply. All installation and hook-up should be done in accordance with all National and Local codes and permits. In no way is this document intended to construe warranty or fitness of use of the products described, nor is it intended to provide safety instruction for those installing the product.

THE FIELD INSTALLATION OF THIS RETROFIT SYSTEM INTO A SIGN IS SUBJECT TO THE ACCEPTANCE OF LOCAL INSPECTION AUTHORITY.

CAUTION: TURN OFF POWER TO THE SIGN BEFORE INSPECTING OR REMOVING EXISTING LIGHT SOURCE.
THE POWER MUST REMAIN OFF WHILE INSTALLING THE LED RETROFIT KIT.

Tools Required

- Wire cutter & strippers
- Marking pens
- Standard hardware and supplies in addition to the HanleyLED modules installation guides (UL listing may be required on certain items).
- Measuring tape
- Drill

Prepping the Channel Letter or Cabinet

Step 1: Remove existing neon or fluorescent bulbs by having a licensed electrician disconnect and remove the neon transformers or fluorescent ballasts. Remove existing neon and standoffs or fluorescent lamps. Leave fluorescent sockets in cabinets with leads disconnected. This should leave an empty cabinet.

ALL MATERIALS REMOVED MUST BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

Step 2: Installer should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit. Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation. Any existing holes in the letters or cabinet that will not be used in the installation of NRG Streamliner should be patched to avoid water damage. Opening smaller than 0.5" diameter may be sealed with the appropriate amount of rated caulk or sealant. Openings larger than 0.5" should be patched using an aluminum or zinc coated steel patch with rivets and sealant.

Step 3: Proceed with the appropriate NRG Streamliner installation guide for your specific product.



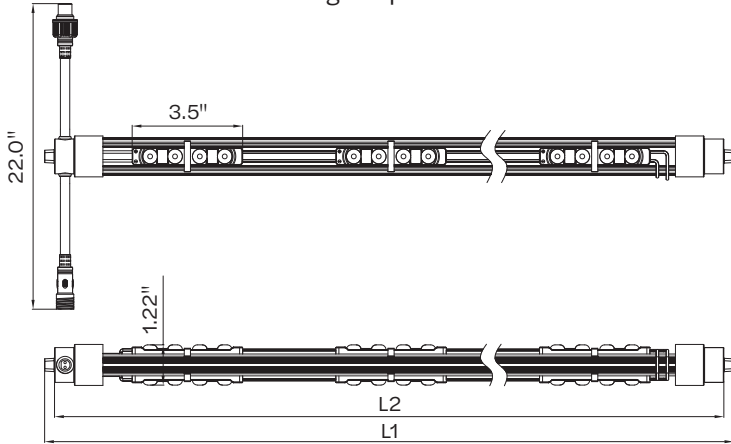
GENERAL PURPOSE
RETROFIT SIGN CONVERSION.
FOR USE ONLY IN ACCORDANCE
WITH KIT INSTRUCTIONS.

KIT IS COMPLETE ONLY WHEN ALL PARTS REQUIRED
BY THE INSTRUCTIONS ARE PRESENT.

Installation Guide for HPEB-SL2S(XXX)

Dimensions

Your NRG Streamliner is ready to go out of the package. Simply open the hinge and snap your bar into existing lamp sockets for retrofits. NO PEELING AND STICKING OF MODULES REQUIRED!



Layout Guidelines

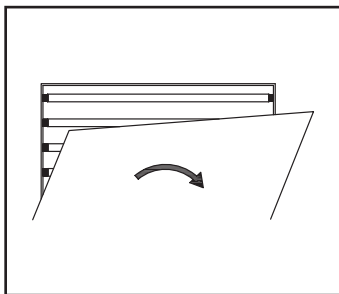
Double-sided light box depth	Max. space between tubes
6"	6"
8"	8"
12"	12"
16"	16"

Notes: Lightbox size: 79" x 59".
Tested with 3/16" 7328 white acrylic.

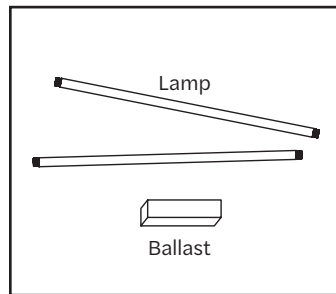
Length	LED lamp cross reference	Module qty per tube	Power (W)	Lumens (lm)	Actual size	SKU
36"	F36HO	10	16	2100	33.1"	HPEB-SL2S36
42"	F42HO	10	18	2375	39.1"	HPEB-SL2S42
48"	F48HO	12	21	2750	45"	HPEB-SL2S48
60"	F60HO	14	26	3400	57"	HPEB-SL2S60
64"	F64HO	16	28	3700	61.1"	HPEB-SL2S64
72"	F72HO	18	31	4080	69"	HPEB-SL2S72
84"	F84HO	20	37	4800	81"	HPEB-SL2S84
96"	F96HO	22	42	5500	93"	HPEB-SL2S96
108"	F108HO	26	47	6150	105"	HPEB-SL2S108
117"	F117HO	30	50	6500	114"	HPEB-SL2S117
120"	F120HO	34	52	6800	117"	HPEB-SL2S120

- Beam angle 2*170°
- Input voltage 120-277V
- Color temperature 7000 K
- Efficacy 130 lm/W
- Socket type R17d

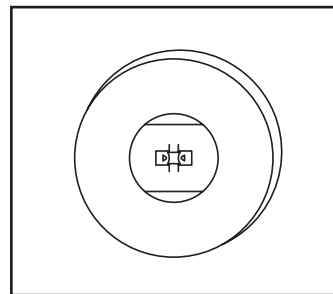
Retrofit Instructions



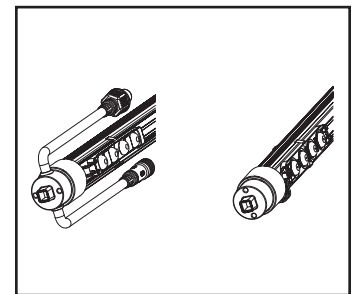
1. Turn off power and open cabinet.



2. Remove existing fluorescent lamps.



3. Leave fluorescent sockets in cabinets with leads disconnected.

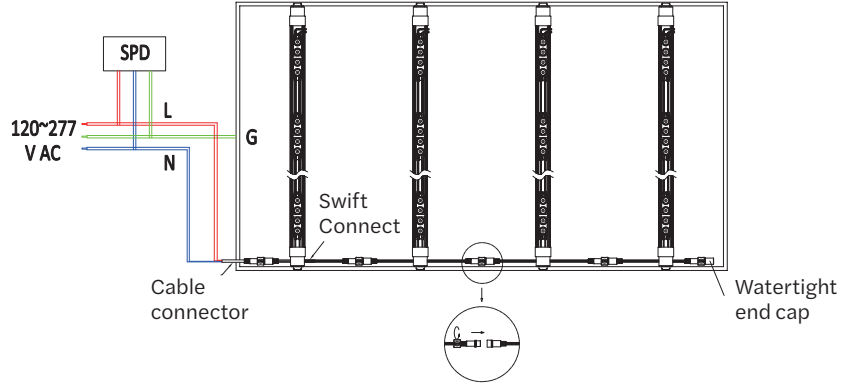


4. Insert the end caps of NRG Streamliner into the sockets in the desired direction.

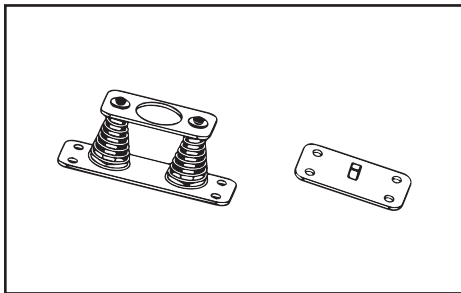
Installation Guide for HPEB-SL2S(XXX)

Retrofit Instructions (cont.)

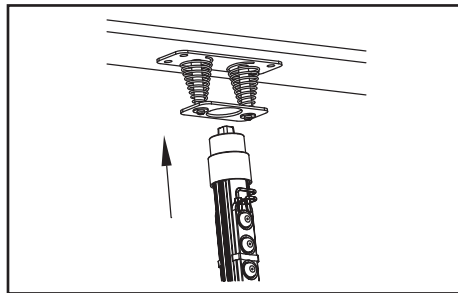
- Surge protectors are highly recommended. If surge protector is applied, connect black wire (L) of surge protector to input (L) line from mains and white wire (N) of surge protector to (N) neutral line from mains and connect green wire (G) to the ground wire of cabinet or to the ground. **NOTE:** One SPD per cabinet.



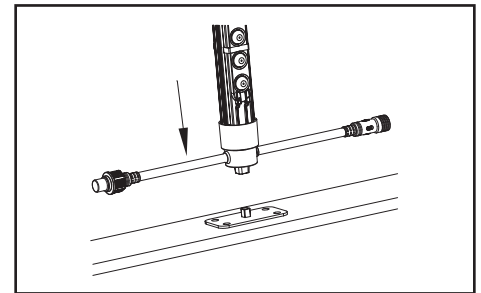
New Cabinet Instructions



- Install the AI brackets in the cabinet.

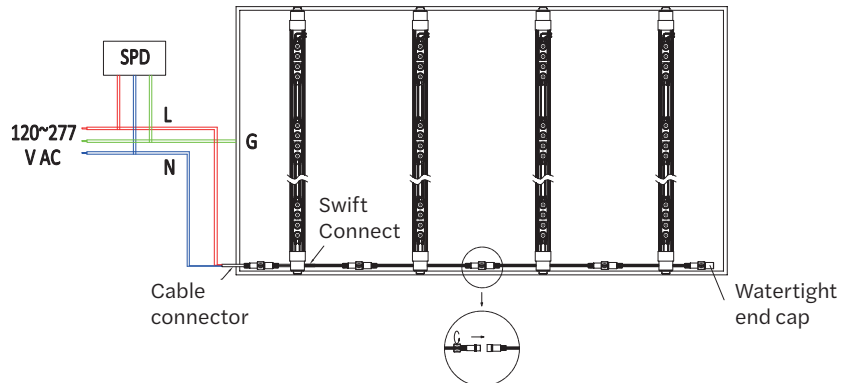


- Insert the end cap without swift connector into the spring bracket in the desired location.



- Then insert the end cap with swift connector into the other part of the bracket without spring.

- Surge protectors are highly recommended. If surge protector is applied, connect black wire (L) of surge protector to input (L) line from mains and white wire (N) of surge protector to (N) neutral line from mains and connect green wire (G) to the ground wire of cabinet or to the ground. **NOTE:** One SPD per cabinet.



Warranty

SKU	Warranty period
HPEB-SL2S36, HPEB-SL2S42, HPEB-SL2S48, HPEB-SL2S60, HPEB-SL2S64, HPEB-SL2S72, HPEB-SL2S84, HPEB-SL2S96, HPEB-SL2S108, HPEB-SL2S117, HPEB-SL2S120	7-year product, 5-year limited labor

Warranty period is only for products which are used inside of waterproof light box and valid only when used as a system with surge protectors.

Installation Guide for HPEB-SL2S(XXX)

Cautions

- This product must be installed by qualified electrician or electrical engineer
- This product must be installed according to the requirements and instructions in the specification sheet
- Disconnect power before installation to ensure safety
- Disconnect or remove existing ballast before installation to avoid short circuit
- Surge protector is highly recommended to be used with this product, otherwise, this product might be damaged in thunderstorm
- This product is not intended for use with dimmers and is not intended for emergency lighting
- Suitable for dry and damp locations; suitable for use in enclosed luminaires
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects

Troubleshooting

Malfunctions	Possible causes	Solutions
All LEDs on the tube do not work.	No power supply from mains.	Power on.
	Poor contact between lampholders and product.	Remove and re-install the product or adjust the lampholders.
	No electricity due to input line malfunction or open circuit.	Inspect the input line and solve the problem.
	Driver inside the product is damaged.	Replace with new product.
Part of LEDs do not work.	Those LED diodes inside modules fail.	Replace with new modules or new product.
	No electricity to those LEDs due to open circuit.	Maintain the circuit or replace with new product.
Brightness of LEDs is weak or uneven.	LED diodes inside modules malfunction.	Replace with new modules or new product.
	Power input of driver is insufficient.	Replace with new product.
LEDs are flickering.	Driver inside the product is damaged.	Replace with new product.
	Poor contact between lampholders and product.	Adjust the contact between them.

WARNING – Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of sign electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

WARNING – Risk of fire or electric shock. Install this kit only in host signs that have been identified in the installation instructions and where the input rating of the retrofit kit does not exceed the input rating of the sign

WARNING – Risk of fire or electric shock. Installation of this LED retrofit kit may involve drilling or punching of holes into the structure of the sign. Check for enclosed wiring and components to avoid damage to wiring and electrical parts.

WARNING – To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation. Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Repair and seal any unused openings in the electrical enclosure. Openings greater than 0.5" (12.7 mm) diameter require a metal patch secured by screws or rivets and caulked with non-hardening caulk. Smaller openings may be sealed with non-hardening caulk.



Customer service and technical support

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