Installation Manual

for the application example:
Luxon Wireless 2450

June 2011

1. Brief product description

The Luxon Wireless 2450 can be added to the Luxon e-HID ballast or fixture. It regulates the communication between the ballast/fixture and the Luxon Light Controller (LLC). After installation the Luxon Wireless 2450 becomes a RF node in the network, and data can be send wirelessly to the light controller.

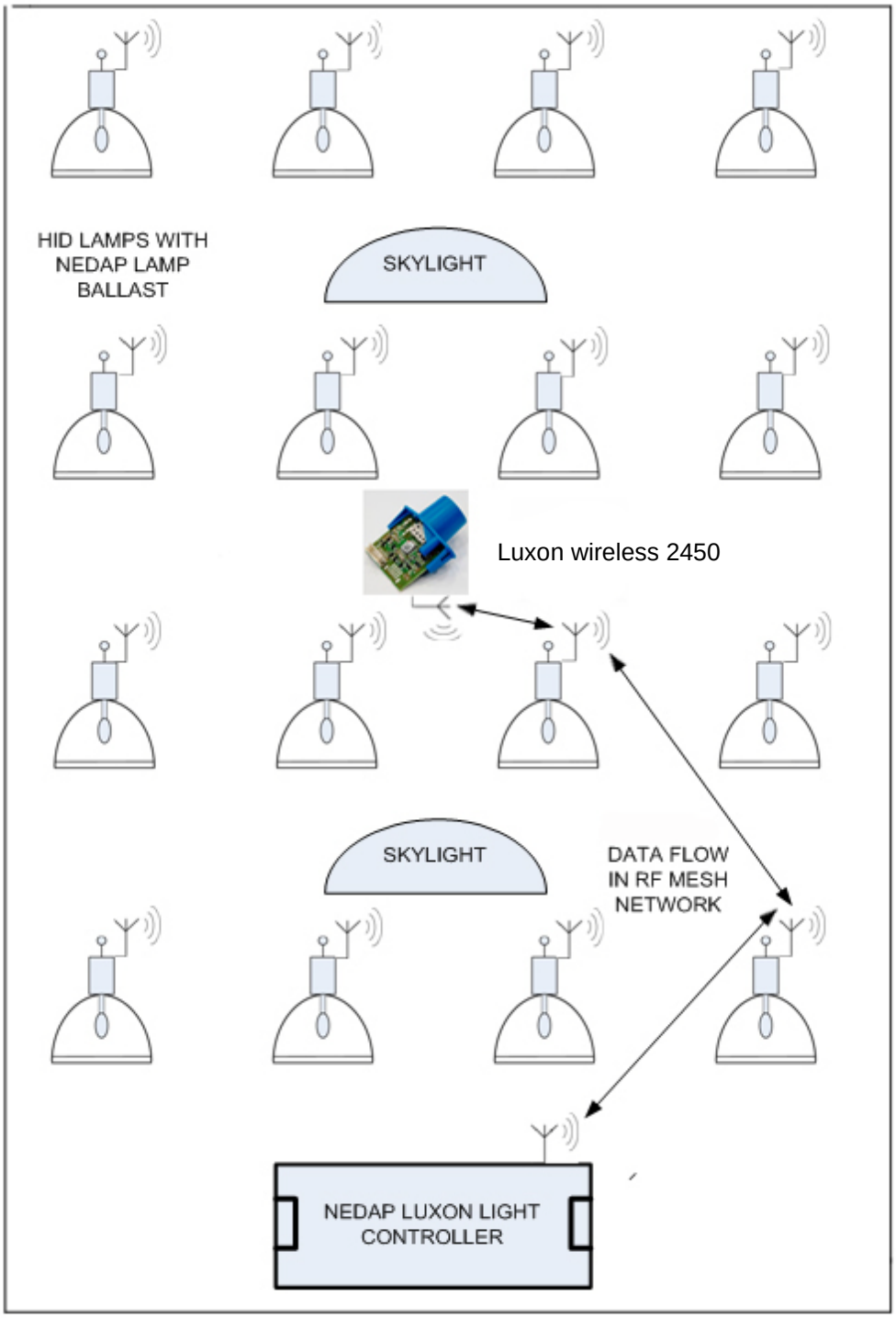

Figure 1. Installation example for the Luxon Wireless 2450 with HID lamps with a Mesh Network in a building with skylights

2. Assembly overview for the Luxon Wireless 2450

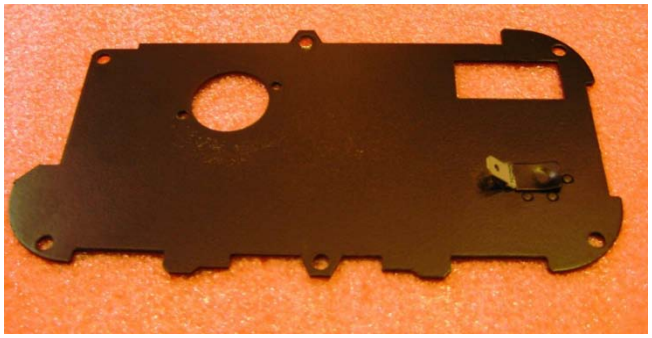

Figure 2a: Frontplate of the end use enclosure

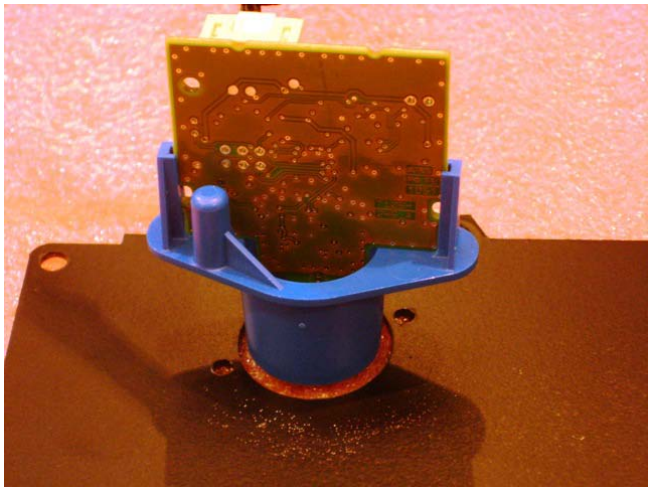

Figure 2b: Luxon Wireless 2450 enclosure positioned on the spot mounted to the front plate

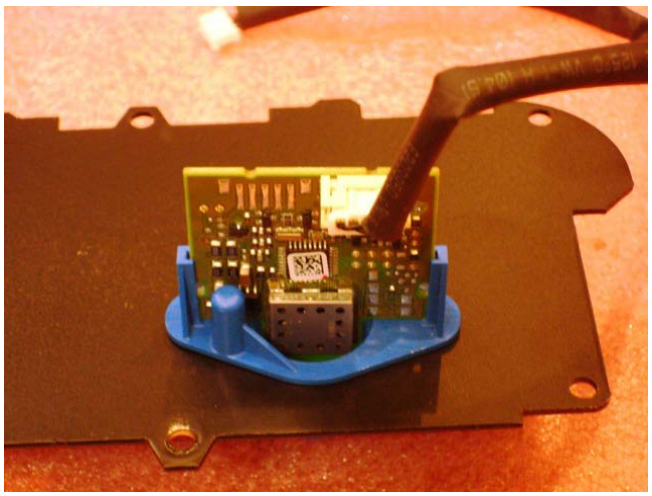

Figure 2c: Luxon Wireless 2450 enclosure positioned in the hole mounted to the front plate

Figure 2d: Luxon Wireless 2450 mechanically secured to the front plate by screws

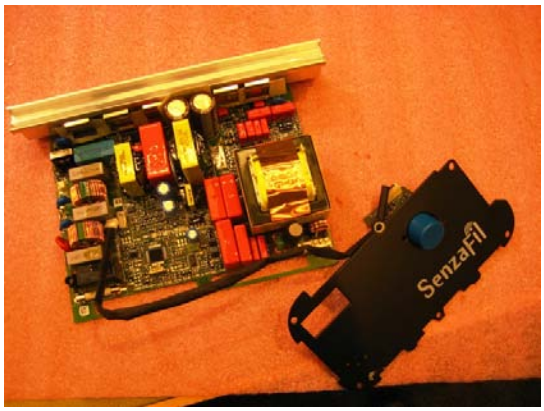

Figure 2e: Luxon Wireless 2450 wired to the Luxon e-HID ballast

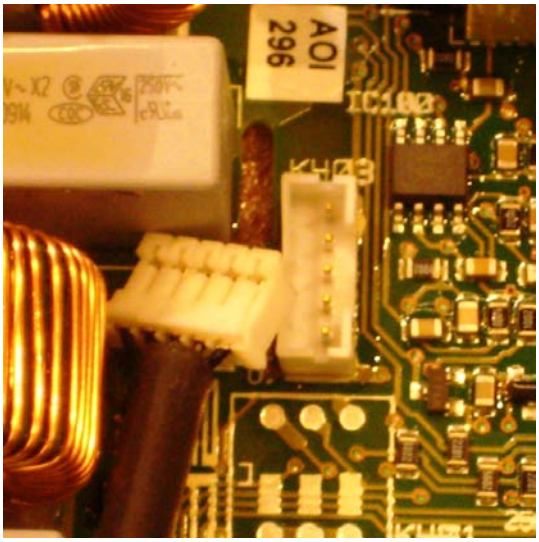

Figure 2f: Detailled photograph of the connectors

Figure 2g: Frontview of the Luxon e-HID ballast

3. Positioning

The Luxon Wireless 2450 will be mounted to a cover of a Luxon e-HID ballast or fixture

Note:

1) **This transmitter should only be used or installed at locations where there is at least 20cm separation distance between the antenna and all persons. This is to comply with FCC RF exposure requirements for mobile transmitting devices.**
2) **The Luxon Wireless 2450 shall never be installed inside a metal power cabinet. This would impede wireless communication.**

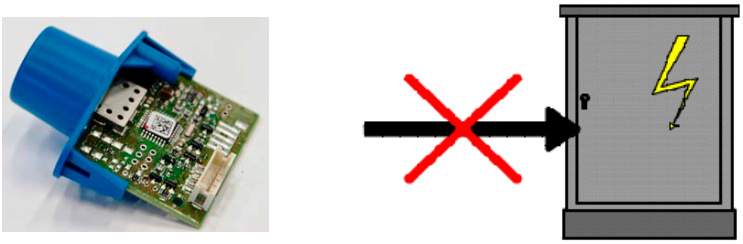

Fig 3 No installation of the Luxon Sensor Bridge inside a metal enclosure

5. Powering the Luxon Wireless 2450

The Luxon Wireless 2450 is powered by a 12V DC-source from the Luxon e-HID PCB.

6. Specifications for application Luxon Wireless 2450

Input Supply	12 Vdc, max 0.1 mA
Operating temperature	-40 to +85°C
Safety	EN60950
EMC/Telecom	EN301489-1, EN300328 V1.7.1
	FCC47 part 15 and IC RSS210
Dimensions	40X53 mm

7. FCC and IC Declarations for Luxon Wireless 2450

This device contains Luxon Wireless 2450 with FCC ID: CGDLW2450 and IC: 1444A-LW2450

Compliance statement

This device complies with part 15 of the FCC Rules and to RSS210 of Industry Canada.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Déclaration Conformité

Cet appareil se conforme aux normes RSS exemptés de license du Industry Canada.
L'opération est soumis aux deux conditions suivantes
(1) cet appareil ne doit causer aucune interférence, et
(2) cet appareil doit accepter n'importe quelle interférence, y inclus interférence qui peut causer une opération non pas voulu de cet appareil.

Warning

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure

To comply with FCC RF exposure requirements for mobile transmitting devices, this transmitter should only be used or installed at locations where there is at least 20cm separation distance between the antenna and all persons.

8. Label artwork for application Luxon Wireless 2450 end product example

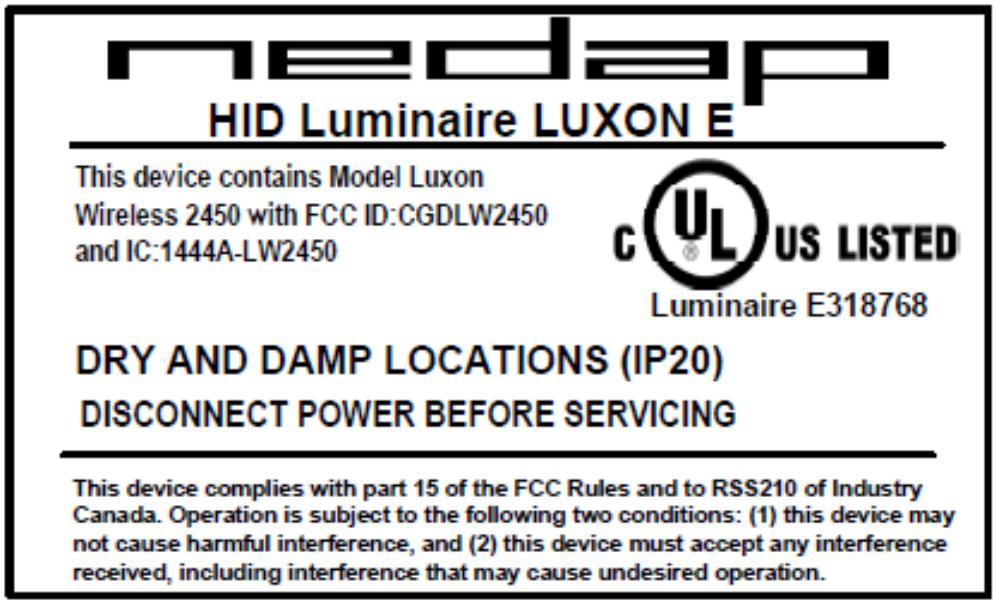

Fig 4: Label artwork for Luxon Wireless 2450 end product example.

9. Label location Luxon e-HID ballast.

Attach the label to the Luxon e-HID ballast as shown in the following figure 5.

Fig. 5. Label location