Light-it, Notes to self

When shipped from factory default operating mode is mobile(loco) decoder;
"Loco address 3"

Factory rest set CV128 to value of 170;
"sets decoder back to factory settings"
Can be done while in any mode by,
- press program button on the light-it and make sure the LED is flashing
- from this screen display

```
LOC:  003  XX:XXAM
FWD:  000  --------
```

- press program then enter

```
SEL MODE  XX:XXAM
PROGRAM ON MAIN
```

- select any non used loco address then enter

```
OPS PROG  XX:XXAM
PROG LOCO:   XXXX
```

- press 2 for "CV"

```
LOC:XXXX  XX:XXAM
1=ADR 2=CV 3=CFG
```

- CV number = 128 enter

```
PROG CV   XX:XXAM
PROG CV NUM:  _
```

- Value = 170 enter

```
PROG CV   XX:XXAM
ENTER VALUE:  _
```

- light-it reboots to all lights on and should be responding to loco address 3 while pushing F0

Brightness CV's default value = 255
- 140
- 141
- 142

Effects CV's default value = 1
- 137
- 138
- 139

Effects;
0 - off
1 - steady on
2 - slow flashing
3 - flicker a, florescent
4 - flicker b, florescent
5 - flicker c, florescent
6 - single strobe (every 2 seconds)
7 - double strobe (every 2 seconds)
8 - rotary beacon
9 - crossing phase a
10 - crossing phase b
11 - random on/off (times from 4 seconds to 1 minute)
12 - random on/off (times from 4 seconds to 2 minute)
13 - random on/off (times from 8 seconds to 4 minute)
14 - mercury vapor - stadium lights coming on (30 seconds to achieve full brightness, will very depending on brightness setting) best to use in accessory mode
15 - rapid flash

Aspects;
0 - red
1 - yellow
2 - green
3 - flash red
4 - flash yellow
5 - flash green
6 - red, yellow
7 - flash red, yellow
8 - red, flash yellow
9 - red, green
10 - flash red, green
11 - red, flash green
12 - yellow, green
13 - flash yellow, green
14 - yellow, flash green
15 - all on

Mobile Decoder operations

If using Light-it with a second mobile decoder, make changes at default address first before setting desired address. If alterations are needed to be made, make sure there are no other decoders set to that address.
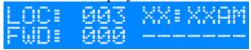
If Light-it is used in a consist, and want to make alterations, make them at the locomotive address not the consist address and also make sure there are no other decoders set to that address.

To operate Light-it in Locomotive mode, functions are going to respond to headlight(F0),F1,F2.
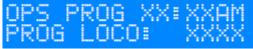
Valid loco addresses 1-9999
To program an address,
- press the program button on the light-it and make sure the LED is flashing
- from this screen display

```
LOC:  003  XX:XXAM
FWD:  000  ---------
```

- press program, then enter

```
SEL MODE  XX:XXAM
PROGRAM ON MAIN
```

- choose the desired address then enter

```
OPS PROG  XX:XXAM
PROG LOCO:   XXXX
```

- press 2 for "CV"

```
LOC:XXXX  XX:XXAM
1=ADR  2=CV  3=CFG
```

- CV number = 1 then enter

```
PROG CV   XX:XXAM
PROG CV NUM:  _
```

- Value = 1 then enter

```
PROG CV   XX:XXAM
ENTER VALUE:  _
```

- press program to get back at main screen

Brightness CV's 140,141,142 default value-255
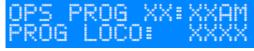Can be adjusted between 0 - 255, 0 being off and 255 being full brightness
When changing values of brightness, make sure output is turned off. If output is on, changes will not be applied until output is cycled.

Effects CV's 137,138,139 default value-1
15 different effects to choose from

To change the brightness and effects CV's
- press program, then enter
- should already see the active address, hit enter

```
OPS PROG XX:XXAM
PROG LOCO:   XXXX
```

- press 2 for "CV"

```
LOC:XXXX XX:XXAM
1=ADR 2=CV 3=CFG
```

- CV number = any number listed above then enter

```
PROG CV   XX:XXAM
PROG CV NUM:  _
```

- Value = any number that is in value range (0-255) for brightness and any effect value (0-15) for effect then enter

```
PROG CV   XX:XXAM
ENTER VALUE:  _
```

- press program to get back at main screen

light-it operations as accessory

To operate light-it in accessory mode, it has to be programmed first. Recommend programming to accessory address 1 for testing.
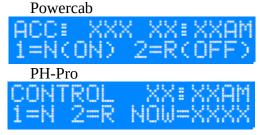
Valid accessory addresses 1-2043
To program an address,
- press the program button on the light-it and make sure the LED is flashing
- press "select accy"

```
CONTROL   XX:XXAM
ACC NUMBER:  _XXX
```

- choose the desired address then enter
- press 1 or 2, does not make any difference

     Powercab

```
ACC: XXX XX:XXAM
1=N(ON) 2=R(OFF)
```

     PH-Pro

```
CONTROL   XX:XXAM
1=N 2=R NOW=XXXX
```

- all outputs will turn on
- press "select accy" and cycle accessory address to confirm change in operation mode
Note: these are also used to operate in accessory mode minus hitting program button on light-it board

Brightness CV's 140,141,142 default value-255
Can be adjusted between 0 - 255, 0 being off and 255 being full brightness
When changing values of brightness, make sure output is turned off. If output is on, changes will not be applied until output is cycled.

Effects CV's 137,138,139 default value-1
15 different effects to choose from

To change the brightness and effects CV's,
- press program, then 7, then enter

     Powercab

```
SEL MODE XX:XXAM
OPS PROG ACCY CV
```

     PH-Pro

```
SEL MODE XX:XXAM
PRG ACCY ON MAIN
```

- should already see the active address, hit enter

```
PROG ACC XX:XXAM
ACCY ADDR:   _XXX
```

- enter CV number, any number listed above for brightness and effects, then enter

Powercab

```
PROG ACC XX:XXAM
PROG CV NUM: _
```

PH-Pro

```
PROG ACC XX:XXAM
ENTER CV NUM:_
```

- enter new value, any number that is in value range (0-255) for brightness and any effect value (0-15), then enter

```
PROG ACC XX:XXAM
ENTER VALUE:  _
```

- press program to get back at main screen
- observe the status change

light-it operations as signal

To operate light-it in signal mode, it has to be programmed first. Recommend programming to signal address 1 for testing.

Valid signal addresses 1-2043
To program an address,
- press the program button on the light-it and make sure the LED is flashing
- press "shift+clear" to get signal address program

```
CONTROL   XX:XXAM
SIGNAL ADDR:_XXX
```

- choose the desired address, then enter

```
CONTROL   XX:XXAM
SIGNAL ASPECT:_
```

- press 0 for "signal aspect", then enter
- red lamp should be lit on signal head
- press program to get back at main screen
Note: these are also used to operate signal aspects in signal mode minus hitting program button on light-it board

Brightness CV's 140,141,142 default value-255
Can be adjusted between 0 - 255, 0 being off and 255 being full brightness
To change the brightness CV's,
- press program, then 0, then enter
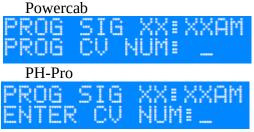
    Powercab
```
SEL MODE XX:XXAM
OPS PROG SIG CVS
```
    PH-Pro
```
SEL MODE XX:XXAM
PROG SIG ON MAIN
```

- should already see the active address, hit enter

```
PROG SIG XX:XXAM
SIGNAL ADDR:_XXX
```

- enter CV number, any number listed above for brightness, then enter

    Powercab
```
PROG SIG XX:XXAM
PROG CV NUM:  _
```
    PH-Pro
```
PROG SIG XX:XXAM
ENTER CV NUM:_
```

- Value = any number that is in value range (0-255) then enter

```
PROG SIG XX:XXAM
ENTER VALUE: _
```

- press program to get back at main screen
- observe the status change