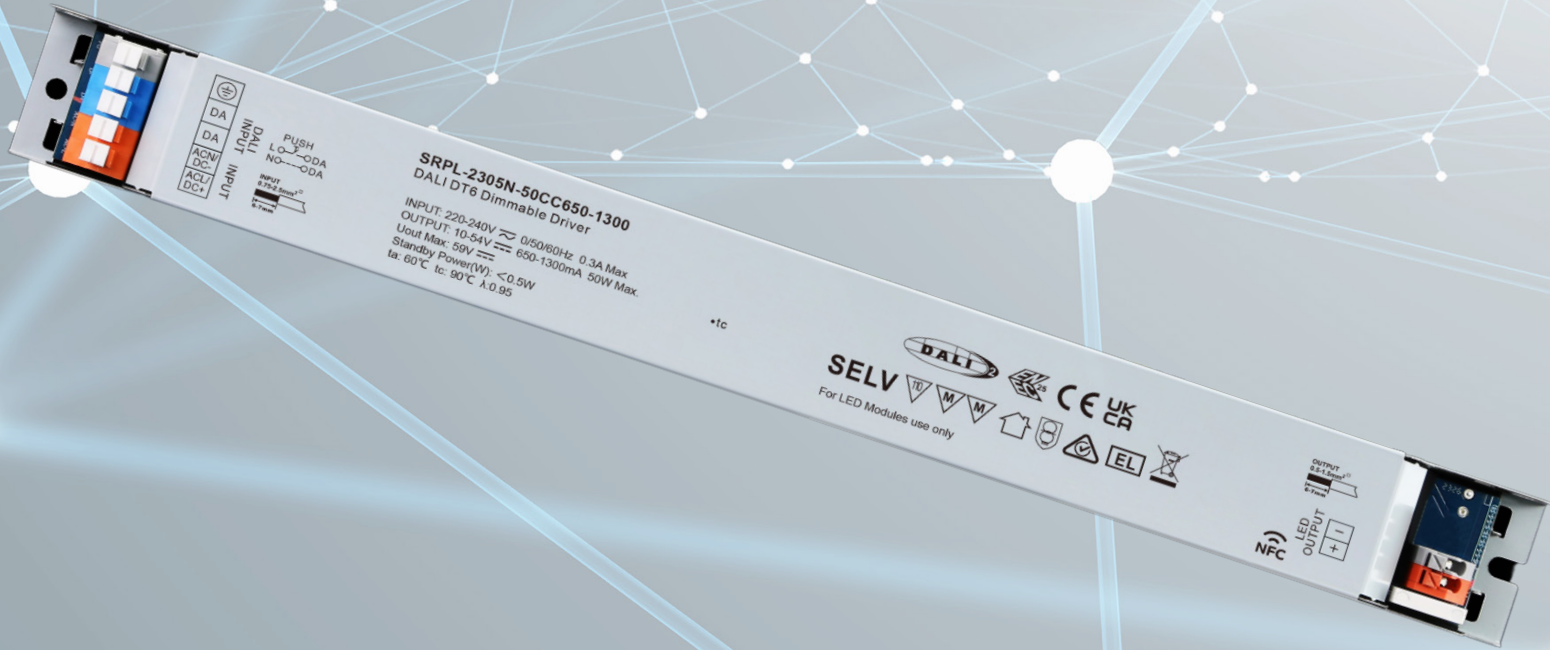# SUNRICHER

5 YEAR
WARRANTY

50W
Constant Current Linear LED Driver with DALI-2 NFC

Features of the:
SRPL-2305N-50CC650-1300

CC Constant Current

PushDimming (VAC)

DALI DALI 2 Protocol

IP20 In built applications

N NFC Compatible

Class II Power Supply

CE · IP20 · SELV

Specification

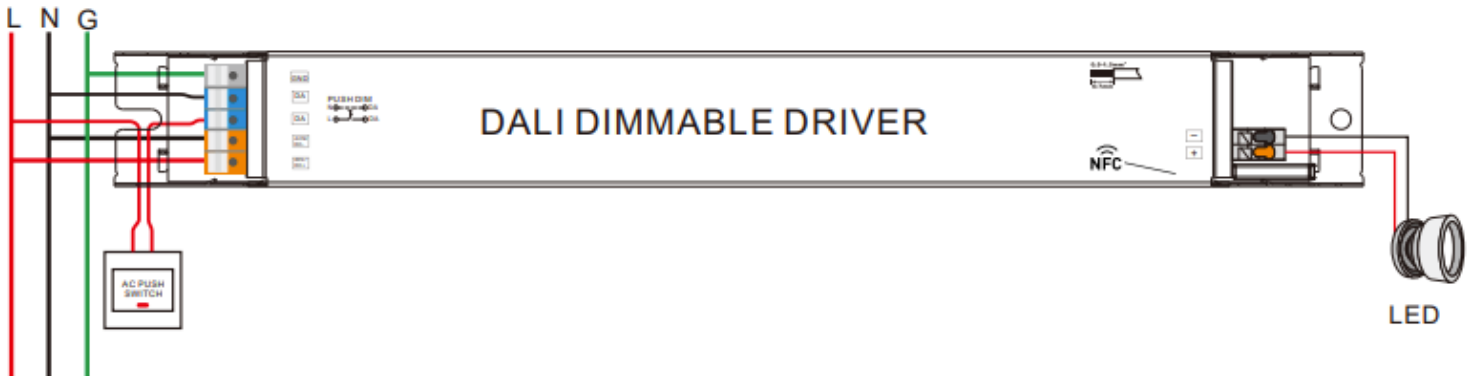| Model		SRPL-2305N-50CC650-1300
Output	DC Voltage Range	10 ~ 54V
	Rated current	650-1300mA via NFC setting; Min.current gear lower to 0.1mA. Default 1300mA
	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated power	50W
Input	Voltage Range	220-240VAC
	Frequency range	50/60Hz
	Power Factor (Typ.)	> 0.97@230VAC (Full load)
	Total Harmonic Distortion	THD ≤ 6% (@ full load / 230VAC)
	Efficiency (Typ.)	>88% @ 230VAC full load
	AC Current (Max)	0.3A @ 230VAC
	Inrush Current (Typ.)	Max.26.6A at 230VAC; 144μs duration
	Leakage current	< 5mA/230VAC
	Standby Power Consumption	<0.5W
	Anti Surge	L-N: 2KV
Control	Dimming Interface	DALI Device Type 6 (DALI consumption < 2mA)/ AC Push
	Dimming Range	0.01%-100%@ Max current
	Dimming Method	Amplitude/CCR dimming
	Dimming Curve	Linear/ Logarithmic optional
Protection	Short Circuit	Yes, recovers automatically after fault condition is removed
	Over Current	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after temperature drop
Environment	Working TEMP.	-25ºC ~ +60ºC
	Max. Case Temp	TC=90ºC
	Working humidity	10%-95% RH (non-condensing)
	Storage TEMP humidity	40℃ ~ +80℃, 10% ~ 95% RH
Safety & EMC	Safety standards	EN61347-1, EN61347-2-13
	Withstand voltage	I/P-O/P: 3.75KVAC
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25ºC/70% RH
	EMC emissions	EN55015, EN61000-3-2, EN61000-3-3
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11
Others	Size	285*30*21 mm (L*W*H)
	Weight	0.25kgs
	Warranty	5 Years
Notes		1. DO NOT select dimming input with power applied to the device. 2. DO NOT install with power applied to device. 3. DO NOT expose the device to moisture.

Mechanical Specification

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DALI

Push Dimming

Operation

With DALI Master:
1. DALI Address
- 1 DALI address for 1 channel output are assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations
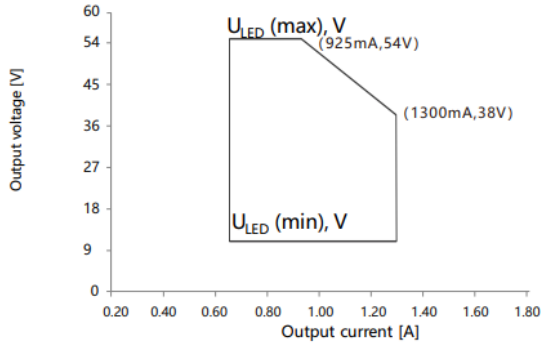
With NFC Programming Devices:

Note:
1. Do wiring according to the wiring diagram and power on the DALI system
2. Recommend setting parameters without power-on the DALI devices
3. Please make sure your mobile phone has NFC function and enable it

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Wiring Diagrams & Dimming

Operating Window

Driver Performance

Efficiency VS Load

Note: Test data under 1300mA gear

5% / 8% / 10% /13% /16% / 21% /23% /31%/ 39%/ 52%/ 65%/ 78% /91%/ 100%
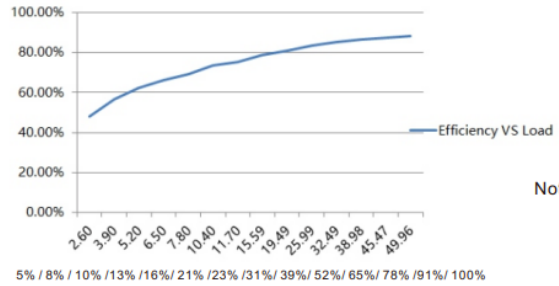
Dimming Curve
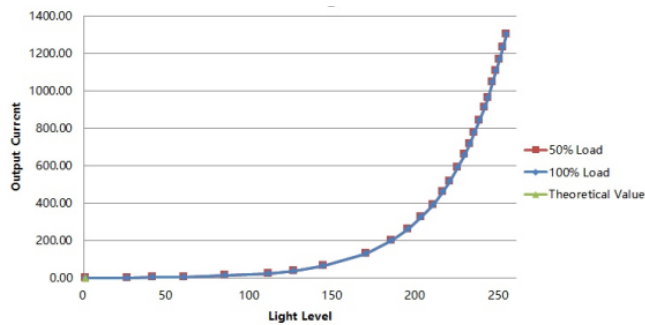
Note: Test data under 1300mA gear

Driver Performance

THD VS Load

Note: Test data under 1300mA gear

5% / 8% / 10% /13% /16% / 21% /23% /31%/ 39%/ 52%/ 65%/ 78% /91%/ 100%

Driver Performance

PF VS Load

Note: Test data under 1300mA gear

5% / 8% / 10% /13% /16% / 21% /23% /31%/ 39%/ 52%/ 65%/ 78% /91%/ 100%
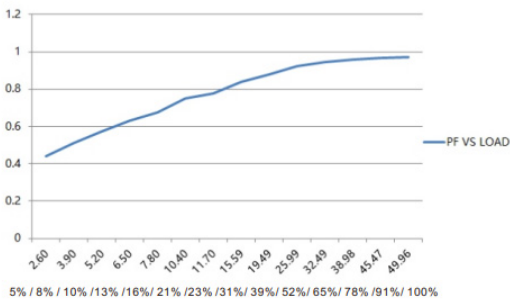
Expected Lifetime

Module Number	Output current	Ta	30 °C	40 °C	45 °C	•••	60 °C
SRPL-2305N-50CC650-1300	650 – 1300 mA	Tc	48 °C	58 °C	64 °C	•••	90 °C(max)
SRPL-2309N-50CCT650-1300	650 – 1300 mA	Lifetime	> 100,000 h	> 100,000 h	> 80,000 h		> 25,000 h

The LED driver is designed for a lifetime stated above under reference conditions.
The relation of tc to ta temperature depends also on the luminaire design.

MCB Load Quality

| Module Number	Ipeak	Twidth	B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
			Max.quantity of LED Driver per MCB														
SRPL-2305N-50CC650-1300	26.6A	144µs	17	22	27	34	42	23	30	37	47	58	27	35	43	53	67
SRPL-2309N-50CCT650-1300	26.6A	144µs	17	22	27	34	42	23	30	37	47	58	27	35	43	53	67
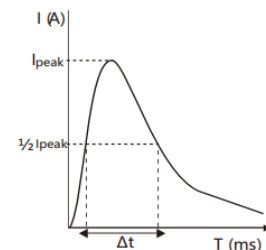
Note:
1. Those MCB parameters are based on ABB S200 series circuit breakers.
2. For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
3. Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.
4. When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.
5. Type C MCB's are strongly recommended to use with LED lighting

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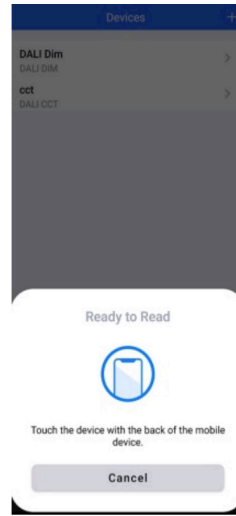
Step 1: Download the APP (searching <u>"SR NFC Tool"</u> from App Store and Google Play) . Open APP.
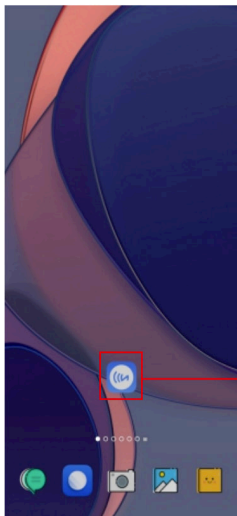
Download "SR NFC Tool "
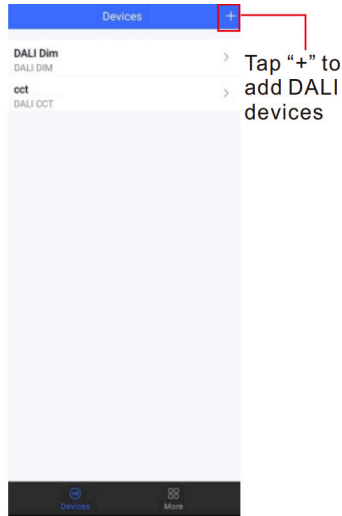
Tap "+" to add DALI devices

Note:
1. Please make sure that you have enabled NFC function with your mobile phone/ tablet.
2. Please make sure that the "NFC position" is matched.
3. Please do not power on the device before setting.
4. Please If you can't download "SR NFC Tool". Please contact with us
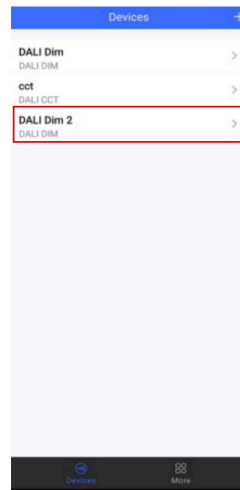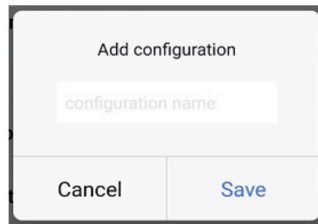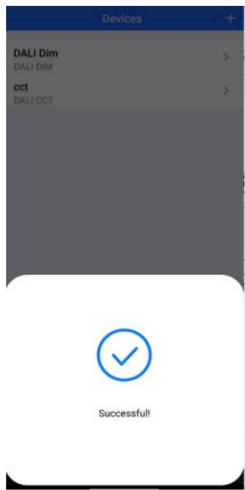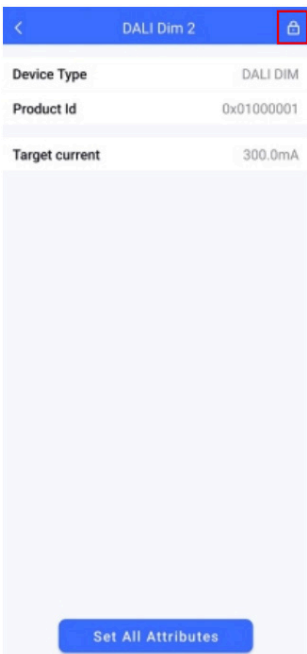5. Please refer to QR code below

Apple QR Code:

Android QR Code:

Step 2: Add device, and name it as you wish.

Add configuration

configuration name

Cancel   Save

Step 3: Unlock device, enter parameters configuring page.
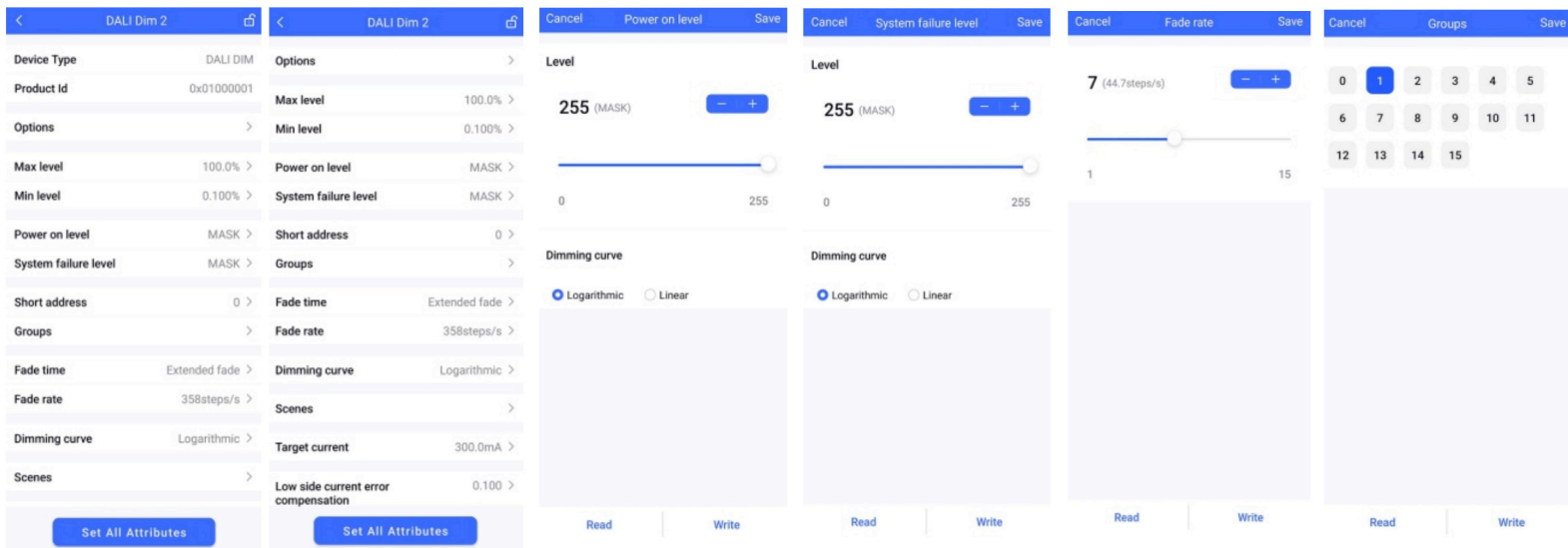
Locked
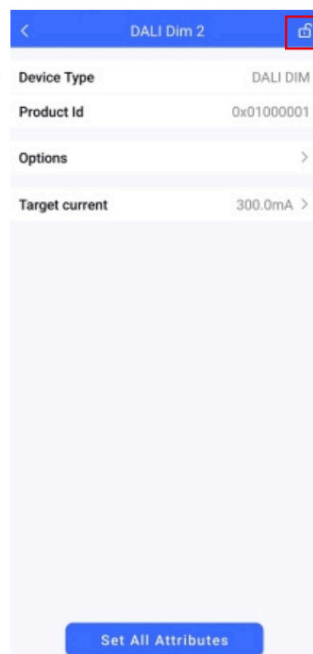
Unlock it
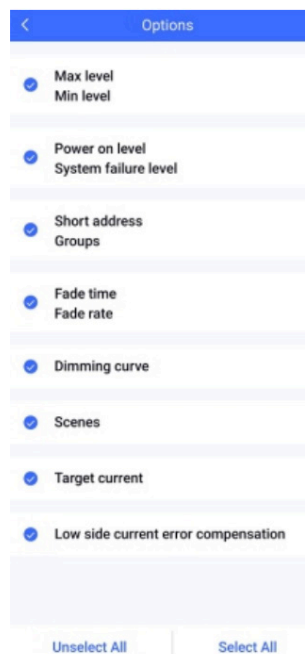
Notes:

1. You have to unlock the device then do some settings
2. Only when the corresponding function is selected, the function interface will be displayed.

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Step 4: Few parameter interface, you can choose the setting based on your requirements.

Step 5: After setting, please save the selected configuration via NFC and power on the device
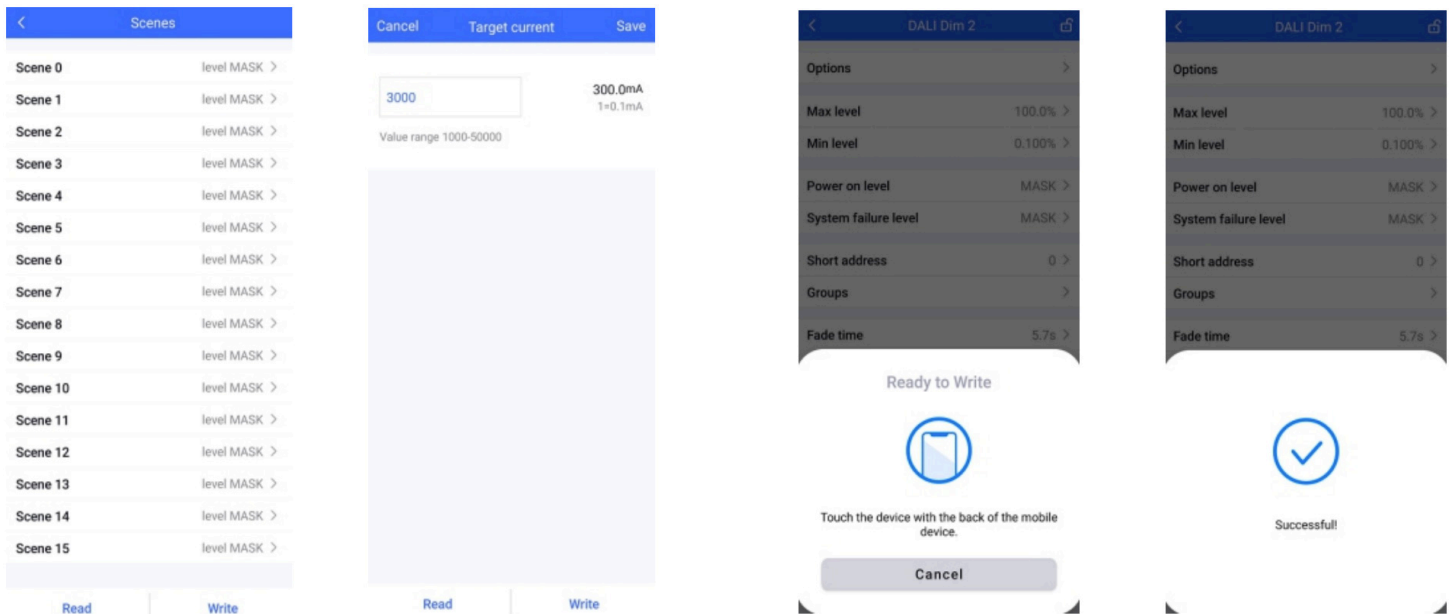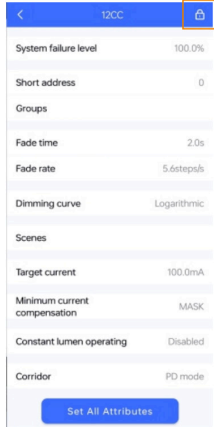

Notes:

1. NFC function doesn't require any power driver
2. Many functions can be configured by NFC. Kindly check your desired functions.
3. All of our DALI drivers are in the best performance within our DALI master/ gateway

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CLO and Corridor DIM(CD) Function Instruction

Step 1: Open APP, and Find the CLO/CD functions
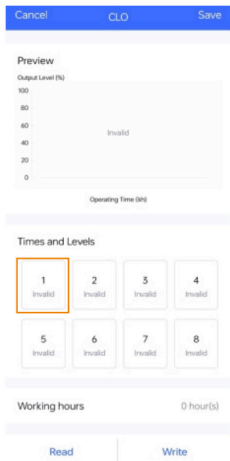

Read From the NFC Driver

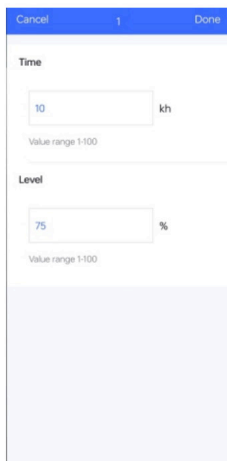Unlock it,and Click here to enter CLO settings
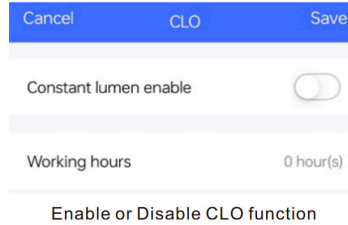
Enable or Disable CLO function

Step 2: Enter CLO Setting homepage

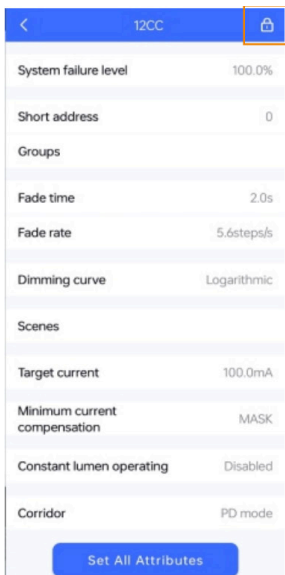Enable CLO function

Click "1",and set its time and level

Set your desired time and levels.
Graphic display

Note:

1. Working hours : Ability to calculate the working hours of a single driver
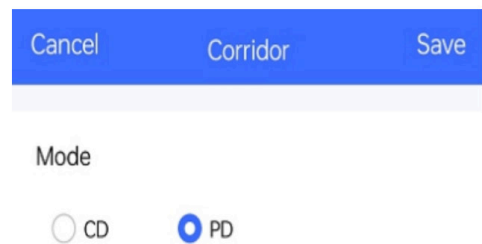
Step 3: Corridor dim(CD) function

Read From the NFC Driver

Unlock it,and Click here to enter Corridor mode

PD: PUSH DIM
CD: Corridor DIM

Step 4: Enter CD Setting homepage

Notes:

1. You should select either CD mode or PD mode, but not both.
2. Under CD mode, you can realize it with normal (3rd party) AC sensor.

Additional Information

1. Please make sure your APP version is 1.0.10   or higher.

2. Please make sure NFC driver's firmware is available with CLO / CD functions

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