



SUNRICHER



5 YEAR  
WARRANTY

# 80W Constant Current Linear LED Driver with DALI-2 NFC

Features of the:  
SRPL-2305N-80CC1000-2000



Constant  
Current



PushDimming  
(VAC)



DALI 2 Protocol



In built  
applications



NFC  
Compatible



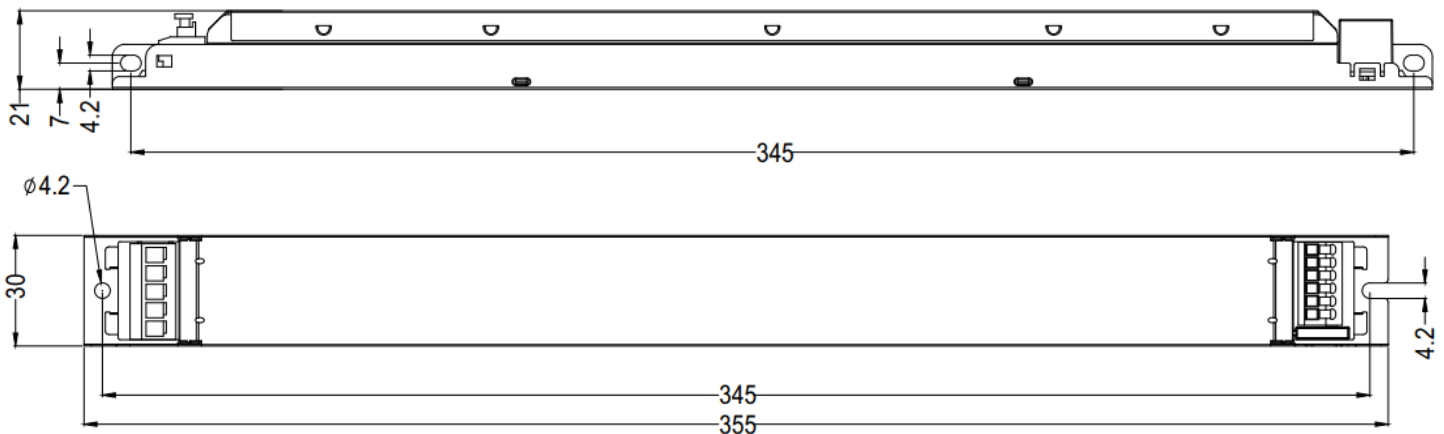
Class II Power  
Supply

CE   IP20 SELV

# Specification

Model		SRPL-2305N-80CC1000-2000
Output	DC Voltage Range	10 ~ 54V
	Rated current	1000-2000mA via NFC setting; Min.current gear lower to 0.1mA,Default: 1800mA
	Current Accuracy	±3%( ±1%@Certain full load) @ full load
	Rated power	80W
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)	0.45A @ 230VAC
	Inrush Current (Typ.)	Max.34.4A at 230VAC; 160µs 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.	-25°C ~ +60°C
	Max. Case Temp	TC=90°C
	Working humidity	10%-95% RH (non-condensing)
	Storage TEMP humidity	40°C ~ +80°C, 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/25°C/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	355*30*21 mm (L*W*H)
	Weight	0.30kgs
	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.	

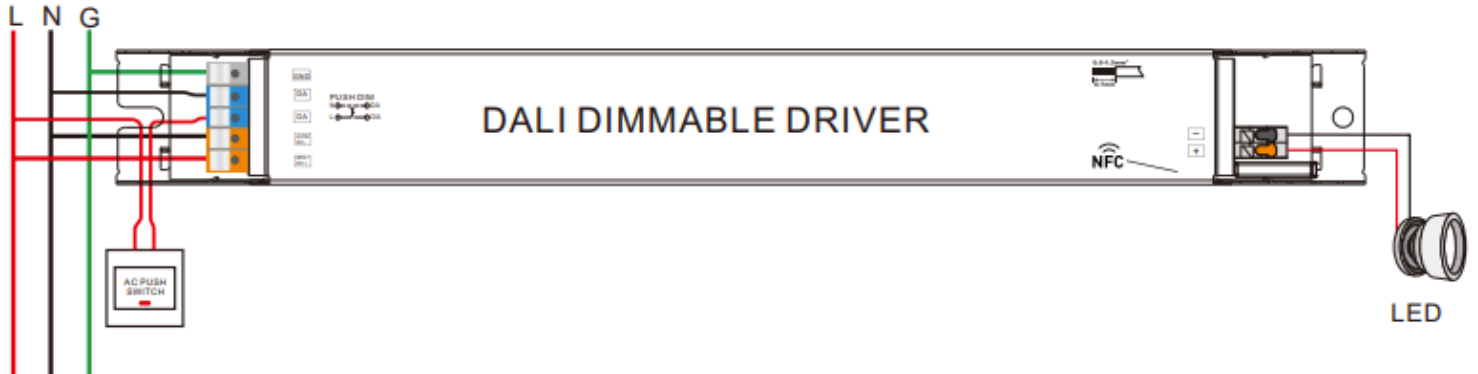
## Mechanical Specification



## 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

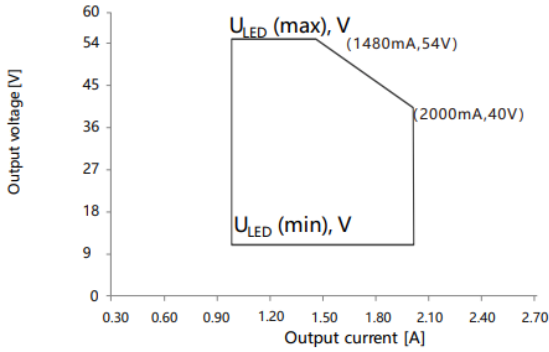
With NFC Programming Devices:

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

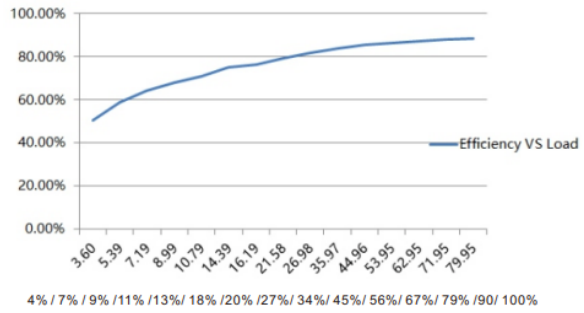
# Wiring Diagrams & Dimming

## Operating Window



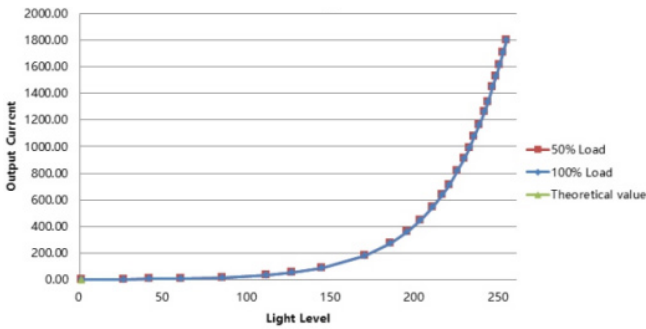
## Driver Performance

### Efficiency VS Load



Note: Test data under 1800mA gear

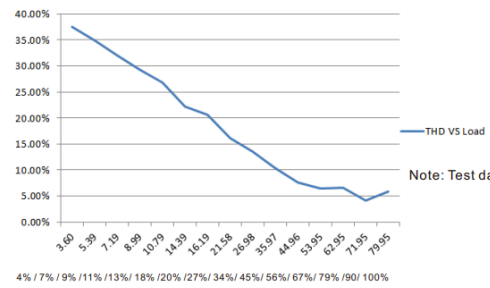
## Dimming Curve



Note: Test data under 1800mA gear

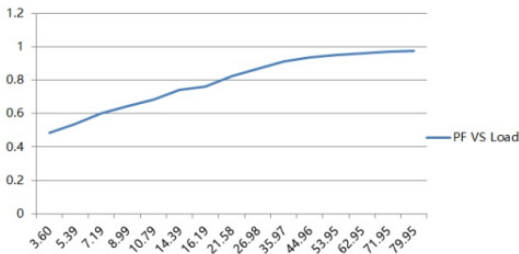
## Driver Performance

### THD VS Load



Note: Test data under 1800mA gear

## Driver Performance



Note: Test data under 1800mA gear

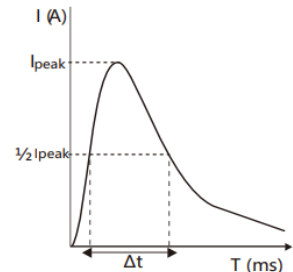
## Expected Lifetime

Module Number	Output current	Ta	30 °C	40 °C	45 °C	•••	60 °C
SRPL-2305N-80CC1000-2000	1000 – 2000 mA	Tc	60 °C	70 °C	76 °C	•••	90 °C(max)
SRPL-2309N-80CCT1000-2000	1000 – 2000 mA	Lifetime	> 100,000 h	> 80,000 h	> 50,000 h		> 20,000 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	Max. quantity of LED Driver per MCB														
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRPL-2305N-80CC1000-2000	34.4A	160µs	12	15	19	24	30	16	20	25	31	39	18	23	28	36	44
SRPL-2309N-80CCT1000-2000	34.4A	160µs	12	15	19	24	30	16	20	25	31	39	18	23	28	36	44

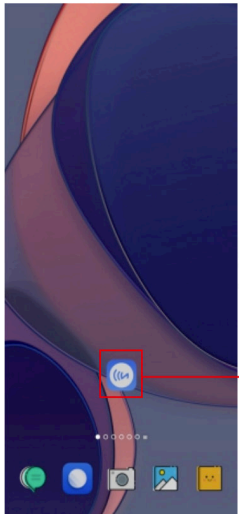


### Note:

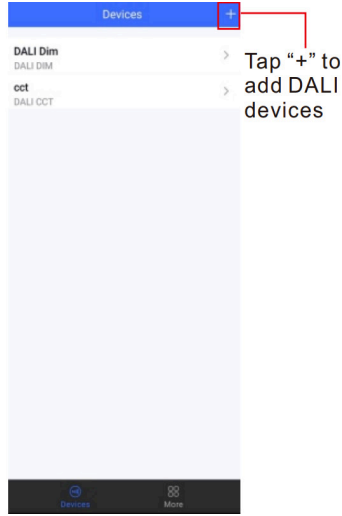
- Those MCB parameters are based on ABB S200 series circuit breakers.
- For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
- Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.
- 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.
- Type C MCB's are strongly recommended to use with LED lighting

# Operation - Working with 'SR NFC Tool' App

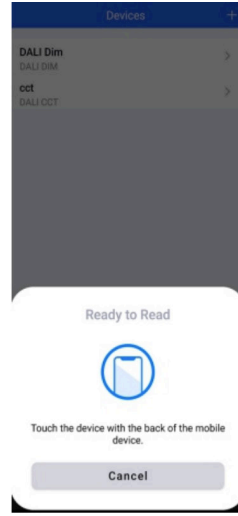
Step 1: Download the APP (searching "SR NFC Tool" from App Store and Google Play) . Open APP.



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

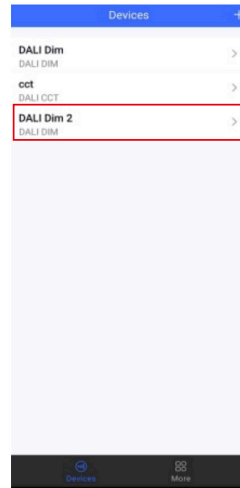
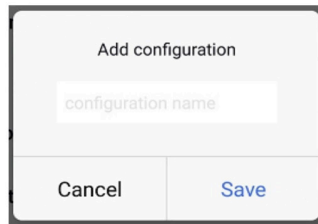
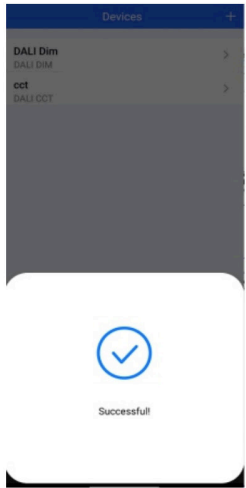
### Apple QR Code:



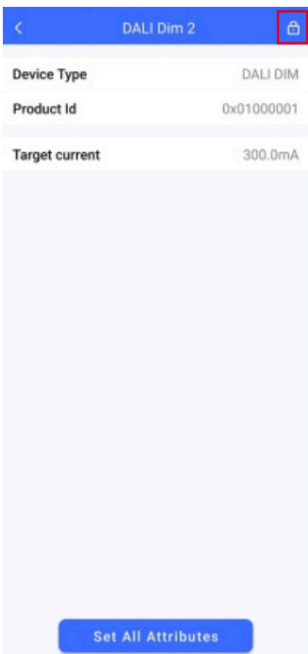
### Android QR Code:



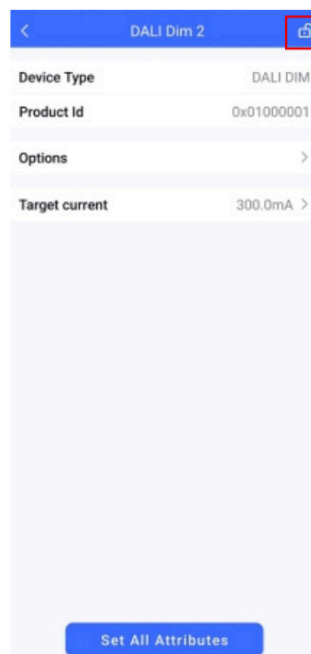
Step 2: Add device, and name it as you wish.



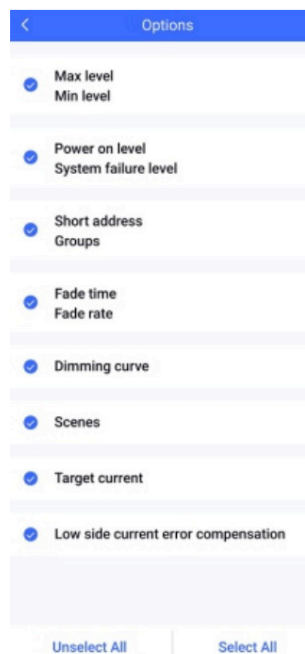
Step 3: Unlock device, enter parameters configuring page.



Locked



Unlock it

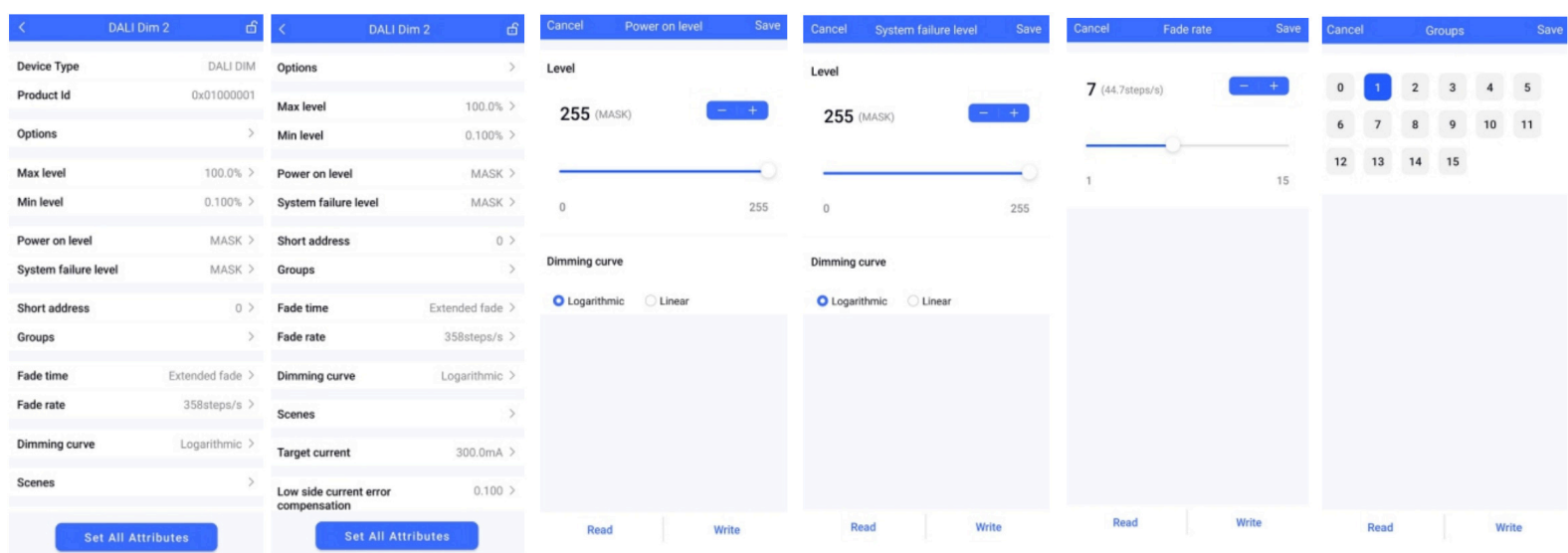


### Notes:

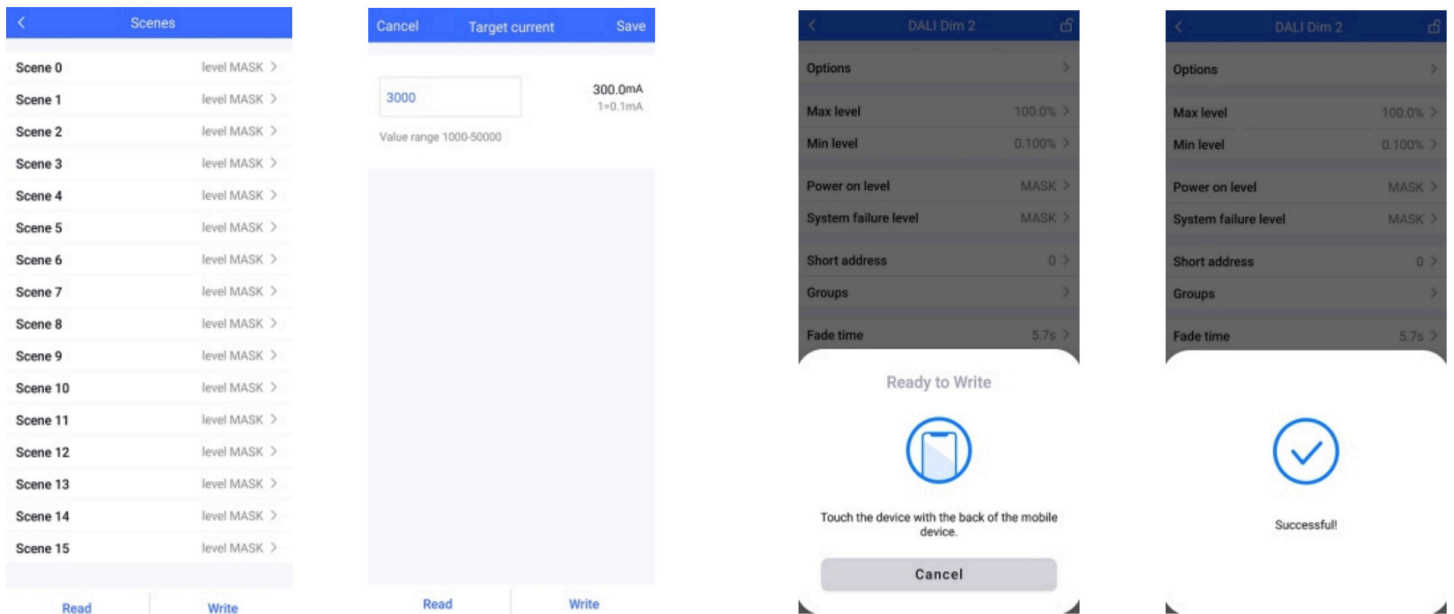
1. You have to unlock the device then do some settings
2. Only when the corresponding function is selected, the function interface will be displayed.

# Operation

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

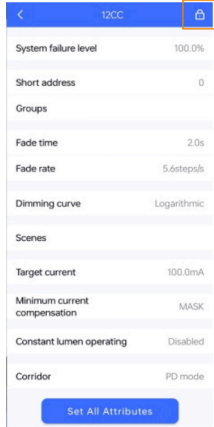


## Notes:

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

## CLO and Corridor DIM(CD) Function Instruction

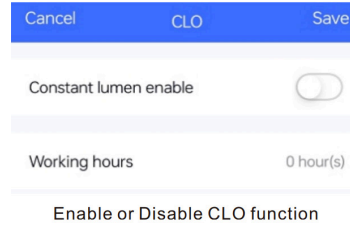
### Step 1: Open APP, and Find the CLO/CD functions



Read From the NFC Driver

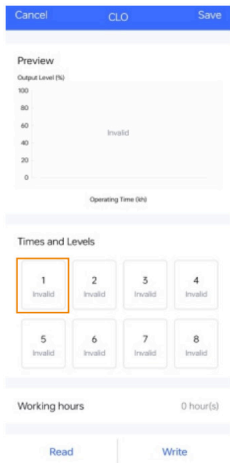


Unlock it, and Click here to enter CLO settings

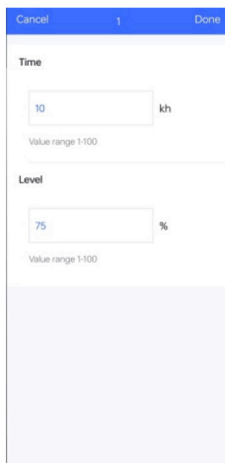


Enable or Disable CLO function

### Step 2: Enter CLO Setting homepage



Enable CLO function



Click "1", and set its time and level

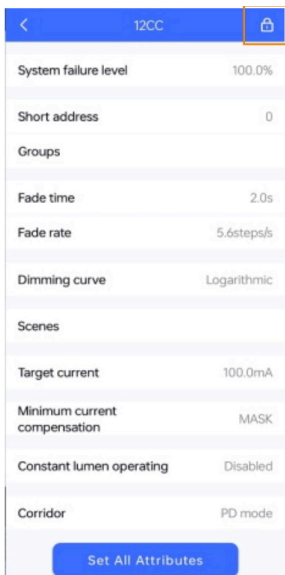


Set your desired time and levels.  
Graphic display

#### Note:

- Working hours : Ability to calculate the working hours of a single driver

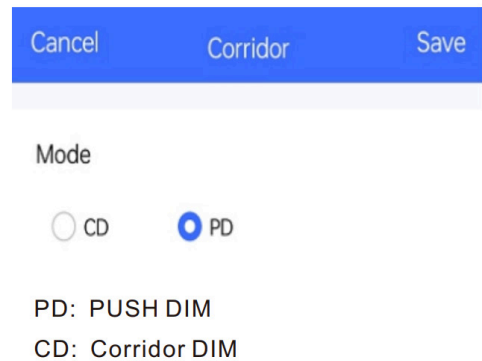
### Step 3: Corridor dim(CD) function



Read From the NFC Driver



Unlock it, and Click here to enter Corridor mode



# Operation

## Step 4: Enter CD Setting homepage

Cancel Corridor Save

Mode

CD  PD

Preview

Level (%)

100  
80  
60  
40  
20  
0

Fade in Occupied Fade out Prolonged Dim to off

Fade in time

5 s

Value range 0-100

Occupied time

Read Write

Cancel Corridor Save

Occupied time

120 s

Value range 0-60,000

Occupied level

100 %

Value range 0-100

Fade out time

5 s

Value range 0-100

Prolonged time

60 s

Read Write

Cancel Corridor Save

Prolonged time

60 s

Value range 0-60,000

Infinite

Prolonged level

20 %

Value range 0-100

Dim to off time

5 s

Value range 0-100

Read Write

### 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

More

Write Consecutively

Advanced >

App Version 1.0.10

Check for Update >

Privacy Policy >

Configurations More

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