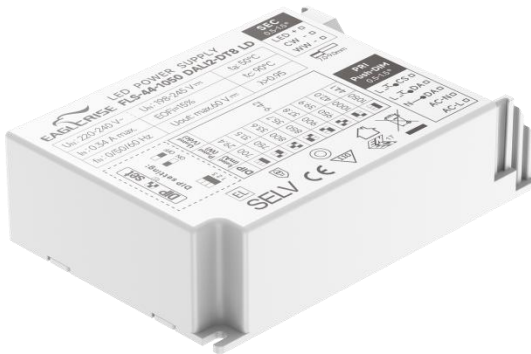# 44W DALI DT8+ PUSH Dimming power supply

Features
- For luminaries of protection Class Ⅰ, Ⅱ
- SELV, Built-in
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor：0.95
- Efficiency：86%
- Support DALI-2,Push Dimming
- 5 years warranty

Applications
- LED panel、Down light

■Approve

DALI 2   CCC

CB CE   EL SELV

◆ Description

FLS-44-1050 DALI-2-DT8 LD is a 44W constant current LED driver with 700 to 1050mA output current and a forward voltage range from 9 to 42Vdc. The output current is adjustable by DIP Switch. With it's dimensions from 110 X 74 X 30 mm. It is easy to integrate in LED Panel and down light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

FLS-44-1050 DALI-2-DT8 LD

- Flicker-free
- Dimming type
- Current
- Power
- Series
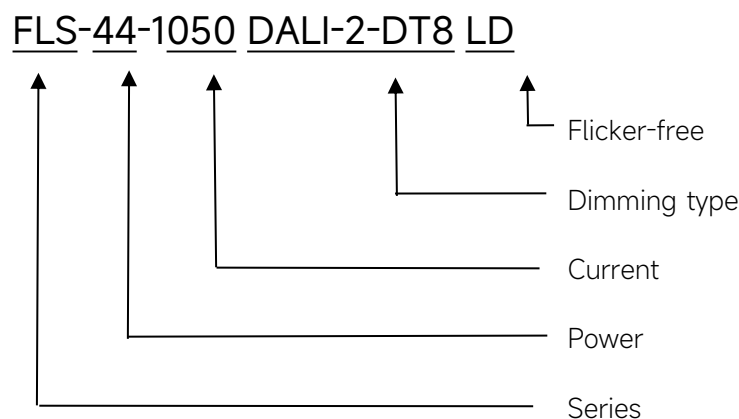
◆ Specification

	Constant Current	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA
Output	Voltage Range	9-42VDC							
	Unload voltage Max.	60VDC							
	Current Accuracy	±5%							
	Output HF current ripple(≥1KHz)	±5%							
	Output LF current ripple(≤120Hz)	±5%							
	SVM	≤0.01@Full Load							
	P_{st}	≤0.05@Full Load							
	Efficiency(Typ.)	86%@Full Load, 240VAC							
Input	Rated input voltage	220-240VAC							
	Range of input voltage	176-264VAC							
	Rated input voltage(DC)	176-280VDC							
	Frequency(Hz)	0/50/60 Hz							
	Displacement factor	≥0.9@Full load, 240VAC							
	Power Factor	0.95@220-240VAC, full load							
	Input Current max	0.34A MAX. @Full Load,176VAC							
	Start-up time	＜0.5 S							
	No Load Power	≤0.5W							
	Standby Power	≤0.5W							
	Network standby power	≤0.5W							
	THD (Typ.)	10% Typ. @Full Load, 240VAC，Io=1050mA							
Dimming	Dimming	YES							
	Dimming mode	DALI-2 IEC 62386-101,102,207,209 & Push							
	Dimming depth	1%							
	Dimming current range	1 ~100%							
Protection	Over Load Protection	103-120% @Io=1050mA							
		YES/Auto resume(When there is dimming command input)							
	Over Voltage Protection	＞60VDC							
		YES/Auto resume(When there is dimming command input)							
	Short circuit Protection	YES/Auto resume(When there is dimming command input)							
	Over Temperature Protection	YES/Auto Resume							
Environment	Operating Temperature	-20℃~+50℃							
	Humidity	20%~90%RH							
	Tc	90℃							
	Storage Temperature	-25℃~+60℃							
	Life time	＞50000h@Tc=80℃,230VAC Full Load, 230VAC							
Surface	Dimension	110X74X30(LXWXH)mm /With side caps :160X74X30(LXWXH)mm							

| standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547;	
Others	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25℃ of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. 3.The DC input for this product is only used for emergency lighting and applies to functional and safety requirements，EMC is not considered. 4.Data are typical values obtained from test samples. 5.Switch and dimmer are not recommended to connect between this product output and luminaries.	

◆ Parameter

Number	Output	Switch position		
	Current(mA) I1+I2	1	2	3
1	700	--	--	--
2	750	ON	--	--
3	800	--	ON	--
4	850	ON	ON	--
5	900	--	--	ON
6	950	ON	--	ON
7	1000	--	ON	ON
*8	1050	ON	ON	ON

* Factory default

◆ Circuit Breaker

I^{peak}	T_{width}	B10	B16	B20	C10	C16	C20
8.84A	37.42μs	22pcs	32pcs	38pcs	27pcs	41pcs	47pcs

◆ Wiring diagram

DALI Connection　　　**push DIM/CCT Connection**
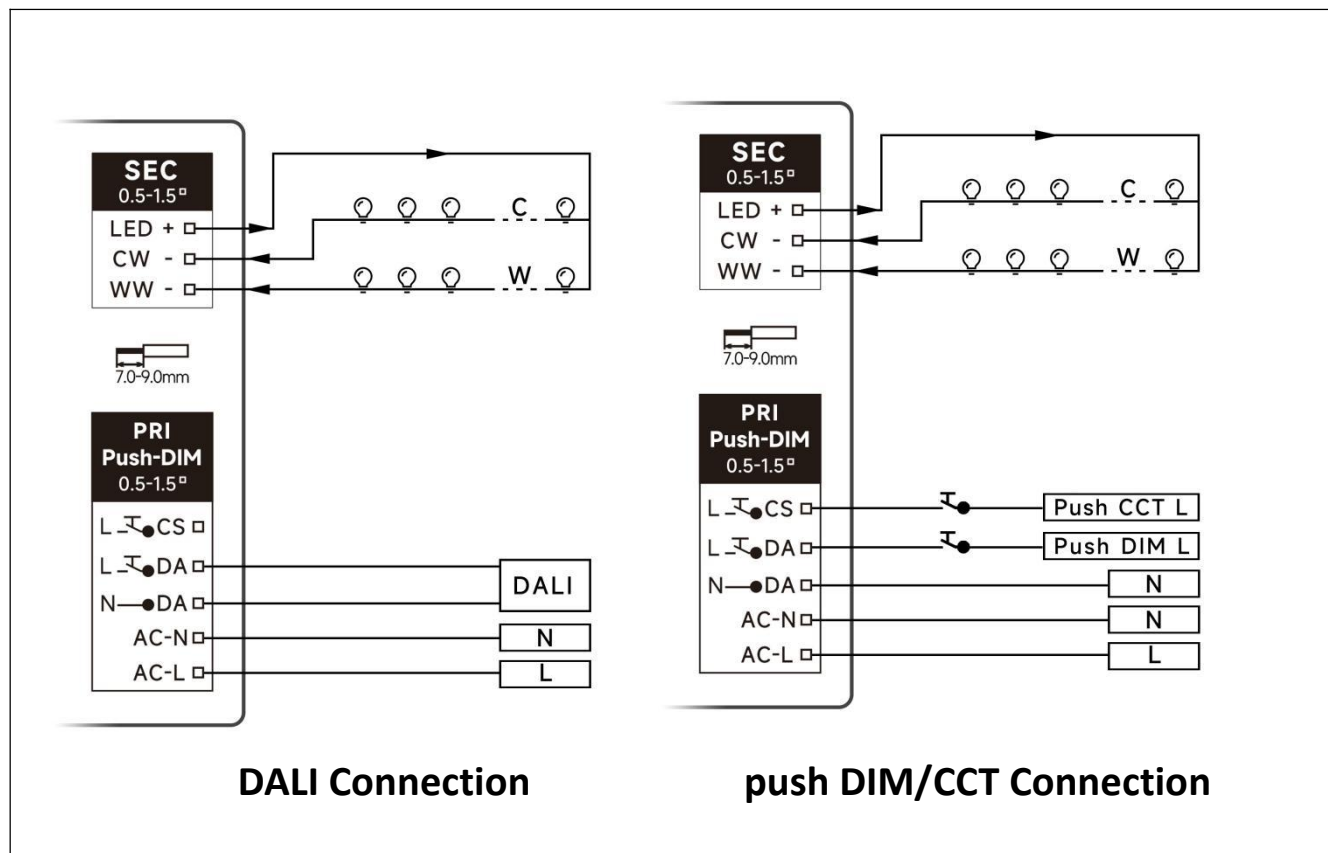
◆ 2D diagram

With side caps

Part number:1320211998-1
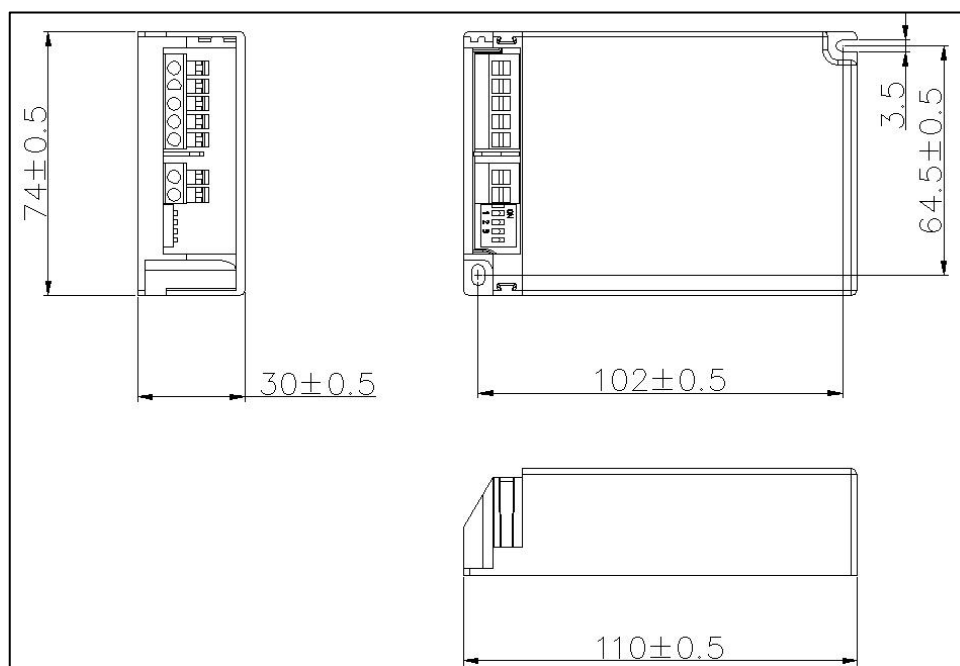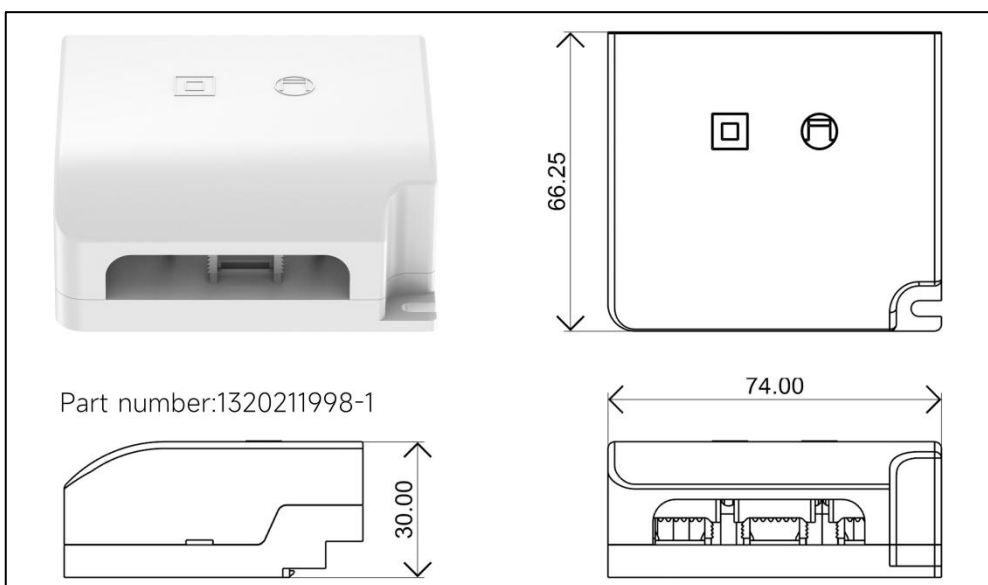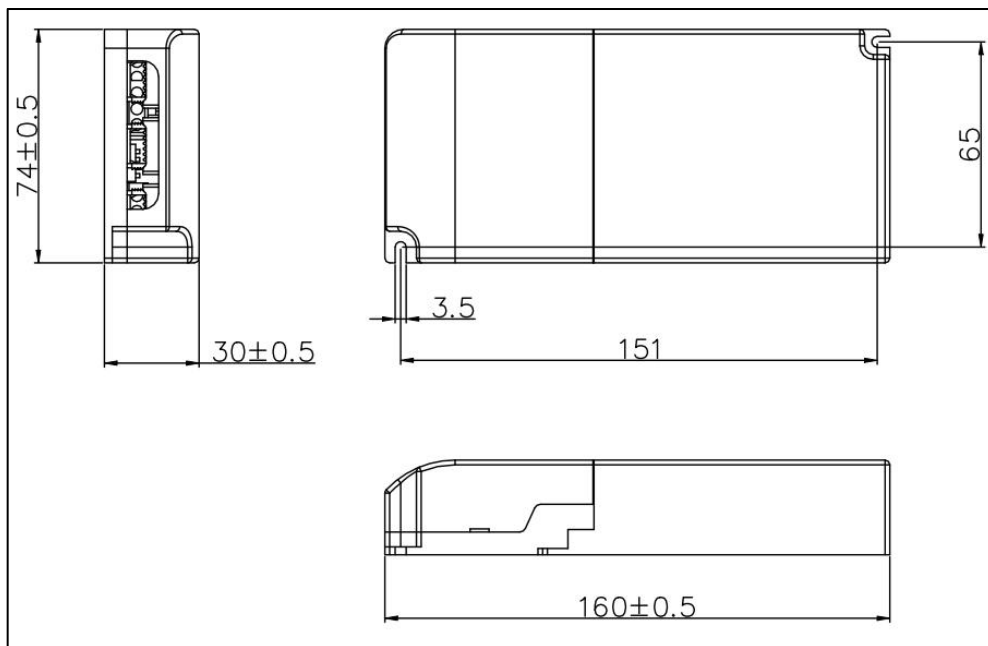
◆ Wiring & Connections

	Specification item	Value （Unit ）
	Input wire cross-section	0.5...1.5 mm²
Input	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
	Output wire cross-section	0.5...1.5 mm²
Output	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

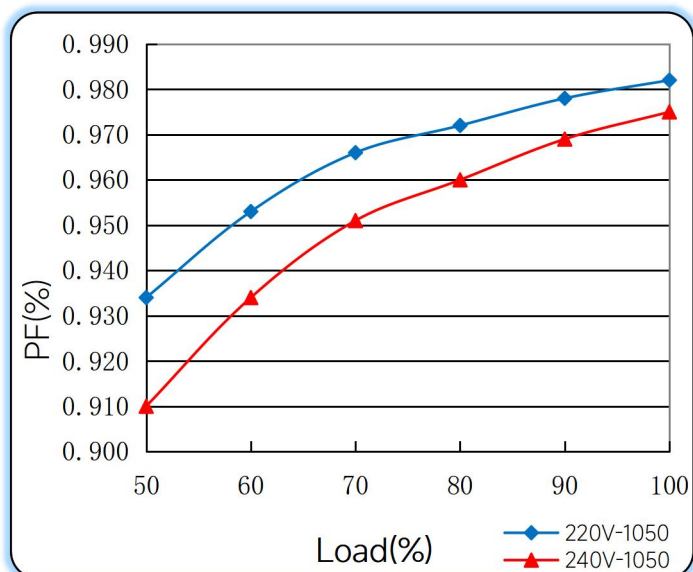# ◆ Curve for FLS-44-1050 DALI-2-DT8 LD，Io=1050mA

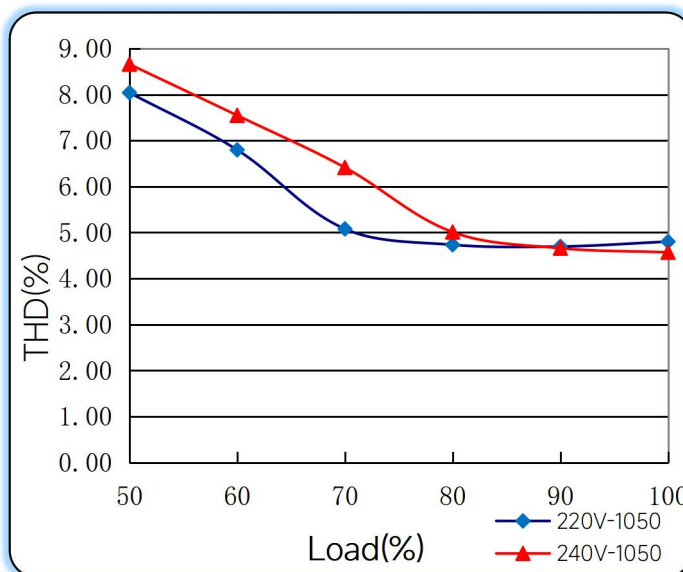## Lifetime vs. Temperature Curve
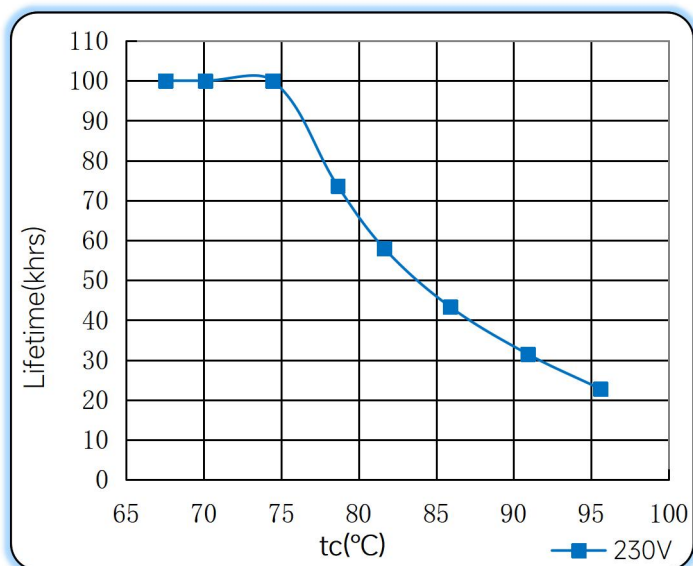
Efficiency vs. Load
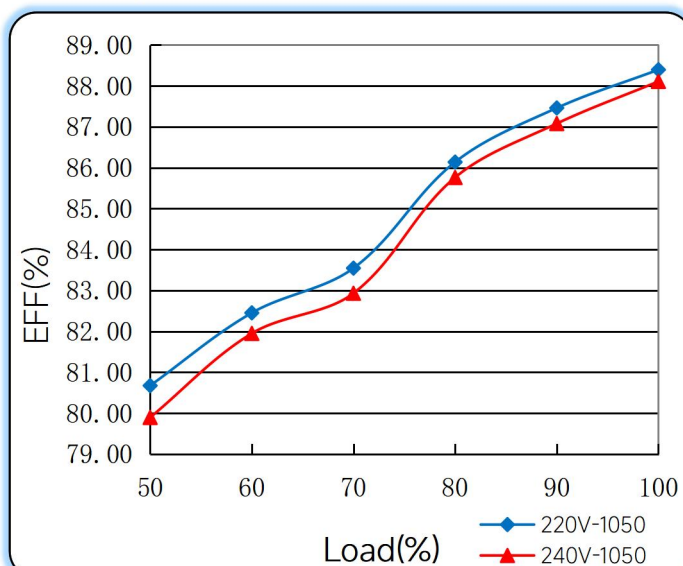
## Power Factor Characteristics

THD vs. Load

◆ Push dimming operation

movement	Current state	Brightness key operation	Color temperature button operation
Short press (50ms<PUSH<500ms)	ON	Turn off the light	Turn off the light
Short press (50ms<PUSH<500ms)	Off	Turn on the light to restore the brightness before OFF, if there is a memory brightness, restore the brightness of the memory	Turn on the light to restore the brightness before OFF, and restore the brightness of the memory if there is memory brightness
Double-click (Press twice within 500ms)	On	Save the current brightness and color temperature. If the indicator blinks twice (Max-Min-Max-Min), the storage is saved successfully	Save the current brightness and color temperature. If the indicator blinks twice (Max-Min-Max-Min), the storage is saved successfully
Double-click (Press twice within 500ms)	Off	Cancel double click save value, restore default brightness (100%) and default color temperature (4000K)	
Tap and hold (0.5 -120s)	ON	Adjust the brightness and switch the adjustment direction after each release	Adjust the color temperature and switch the adjustment direction after each release
Tap and hold (0.5 -120s)	Off	Turn on the light and turn it on from the minimum brightness	Turn on the light at the lowest brightness and turn it down from the warmest color temperature
Enter Corridor mode: Hold down for 120 seconds	Max	First, long press dimming to the darkest, 120S to the brightest indicates entering the corridor mode, if there is a save color temperature, switch to the save color temperature	First, long press dimming to the darkest, 120S to the brightest indicates entering the corridor mode, if there is a save color temperature, switch to the save color temperature
Enter Corridor mode: Hold down for 120 seconds	Min	First, long press dimming to the darkest, 120s to the brightest indicates entering the corridor mode, if there is a save color temperature, switch to the save color temperature	First, long press the dimmer to the brightest, then turn it to the darkest in 120S, then turn it up to the brightest indicates entering the corridor mode, and switch to the saved color temperature if there is a save color temperature
Exit Corridor mode: Tap 5 times within 3 seconds	Corridor model	Quits The corridor mode and enters the PUSH mod	Quits The corridor mode and enters the PUSH mod

Attention:

1. Do not use PUSH dimming and DALI dimming at the same time, otherwise it may damage other DALI equipment

2.PUSH Button needs to be connected to 50/60Hz AC, can not be PUSH dimming when connected to DC

3. The product enters PUSH mode after PUSH dimming. If DALI mode needs to be returned, send DALI instructions to return to DALI mode and power-on.

◆ Corridor mode
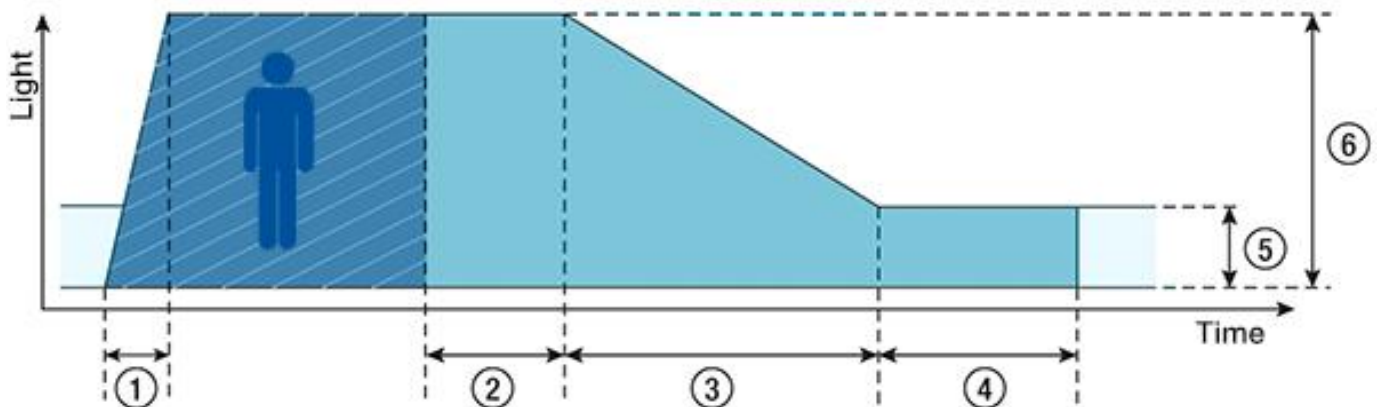
- ◆ ①**Fade-in time(0.5s):** the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.

- ◆ ②**Run-on time(120s):** the time that starts as soon as the presence of a person is no longer detected. If the presence of a person is detected again during the run-on time the run-on time is restarted from zero. If no presence is detected during the run-on time the fade time is started as soon as the run-on time expires.

- ◆ ③**Fade time(32s):** the time during which the luminous intensity is faded from the presence value to the absence value.

- ◆ ④**Switch-off delay (Never Off):** the time during which the absence value is held before the lighting is switched off. Depending on the profile selected the switch-off delay may have different values or may not be defined.

- ◆ ⑤**Absence value(default: 10 %):** the luminous intensity when there is no person present.

- ◆ ⑥**Presence value (default: 100 %):** the luminous intensity when persons are present.

◆ Operating window
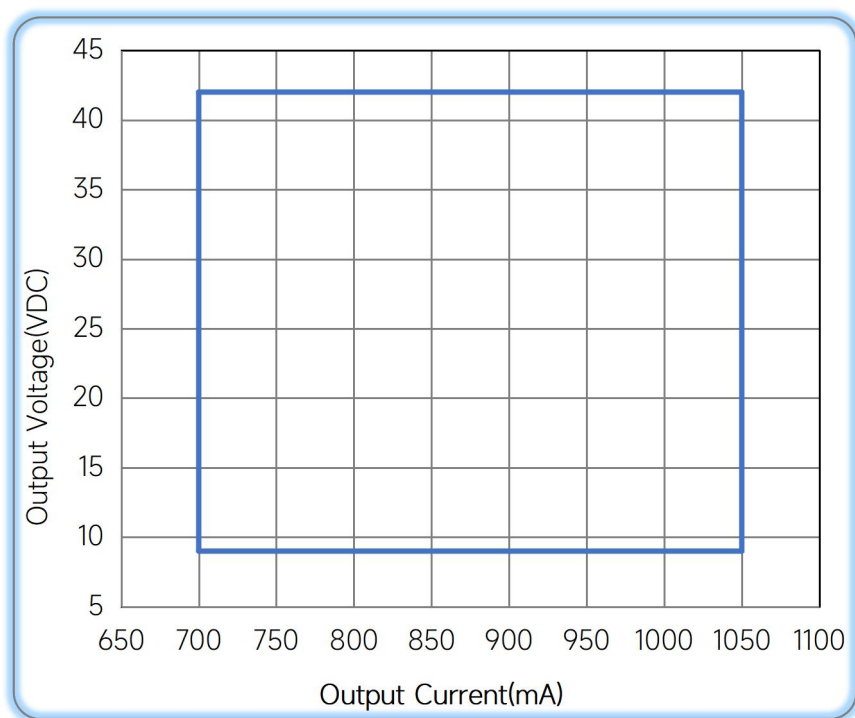
Operating window 100%

◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15
Push dimming operation		Added	B	2023/06/27

Tel: +86-0757-86256822, +86-0757-86256831

E-mail: sales@eaglerise.com

Website : https://lighting.eaglerise.com

EAGLERISE   Manual