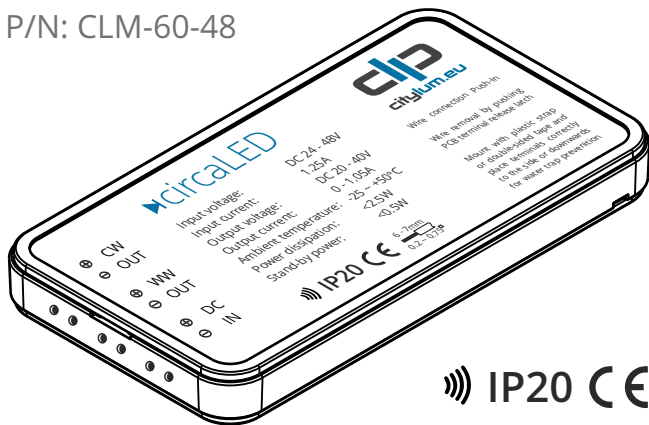


P/N: CLM-60-48



Application:

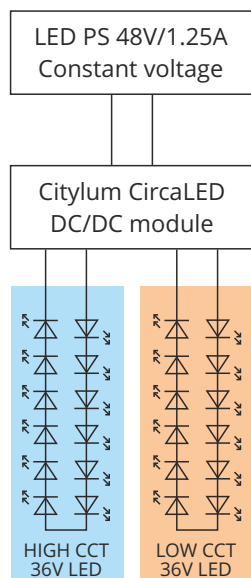
Outdoor LED lighting luminaires

Features:

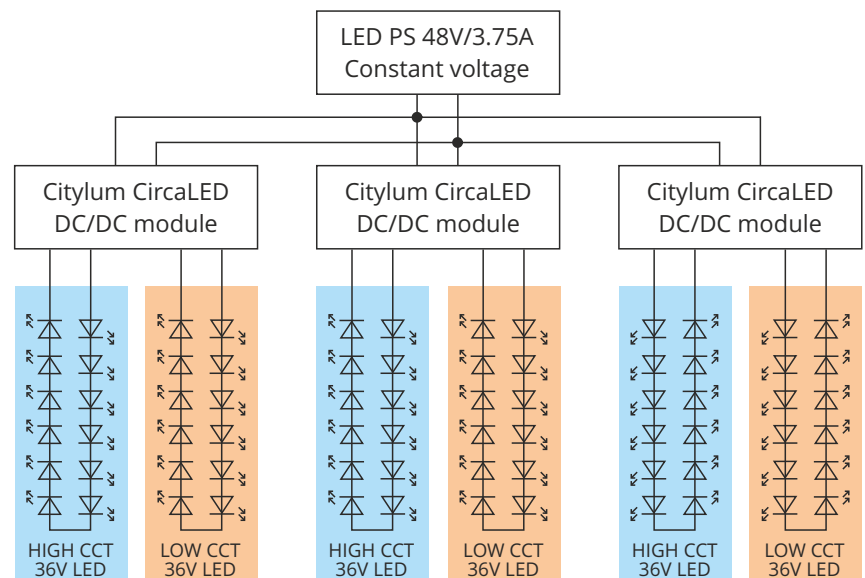
- ▶ Autonomous Tunable-white control
- ▶ Autonomous Part night dimming
- ▶ Constant light output
- ▶ Adjustable output current
- ▶ Consumption and temperature logging
- ▶ NFC contact-less programming
- ▶ Very low output ripple current

		Min.	Max.	Unit; Description
Input	Voltage	24	48	V; DC from Constant Voltage PS
	Current		1.25	A
Output	Voltage range	20	40	V; DC
	Current range	0	1.05	A; per output or sum of outputs
Power	Dissipation		2.5	W
	Stand-by		0.5	W
Protection	Open output protection, short circuit protection, over temperature protection, input overvoltage short-term protection,			
Environment	Ambient temperature	-25	+50	°C
	Storage temperature		+60	°C; max. RH 90%, ABS UL94HB
Physical	Dimensions	115x63x12		mm; LxWxH
	Wire terminals	20AWG (0.50)	18AWG (0.75)	mm ² ; Wire-to-board, Push In
Other	Design lifetime	100 000		h; No electrolytic capacitors used
	Data retention	49.8		Years

Block diagram for single CircaLED module connection



Block diagram for parallel CircaLED modules connection

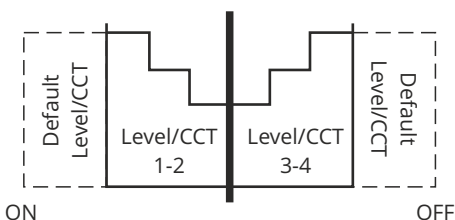
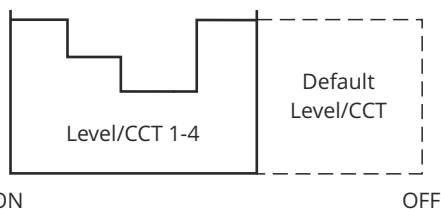


Mobile application

CircaLED application is required to be installed on an NFC capable smartphone or tablet for the CircaLED driver user configuration.

Description

Read Mode	To read the driver's actual settings, press the button and place your phone on the driver's NFC symbol or square antenna.
Output Current	Set the maximum output current. This value can be only set to a formatted driver.
Default Level	Set default power for non-specified times.
CCT Low / High	Set CCT boundaries based on LED specification.
Default CCT	Set default CCT for non-specified times.
Operating Modes	Fixed Power is non-dimming option. Part Night Dimming is autonomous mode suitable for street lighting, managed based on the calculated midpoint of previous nights. Dimming From Start mode is operating after start with the Repeat mode option. Times for dimming modes are set in the table for the duration, power level and CCT level.
MidPoint offset	Offsets time in range from -100 to +100 minutes. This value can be only set to a formatted driver.
Constant Light Output	Set initial power and number of years to maintain constant lumens.
Write Mode	Press to install the settings and place your phone near the CircaLED NFC symbol on bottom side of the enclosure.



Dimming From Start mode is suitable for indoor applications. Each start begins with Power and CCT in Period 1. Continues with Default Power and CCT after Period 4.

Part Night Dimming mode is suitable for street lighting applications powered at predefined times by astrotimer or by photocell. Dimming is adapted based on calculated night midpoint from previous nights autonomously with high precision.

75% 2:01 PM
CircaLED driver programming

READ MODE

Output current mA

Default Level 100%

<

>

CCT Low: K CCT High: K

Default CCT 4000K

<

>

Operating Modes

Fixed Power

PartNight Dimming

Dimming From Start

Period	1	2	3	4
t [min.]	180	90	90	150
L [%]	75	50	25	75
CCT [K]	4000	3000	3000	4000

Additional energy savings 24.7% p.a.

MidPoint offset min.

Constant Light Output ON

Number of years

Initial max. power [%]

WRITE MODE

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