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Making light work

DALI to 0-10V Converter

Technical Reference Manual



Creative Lighting Pty Ltd

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Overview

The Creative Lighting **DALI to 0-10V Converter** provides two independent, galvanically isolated 0-10V (or 1-10V) analogue output channels, each controlled by a dedicated DALI gear address. It is designed for retrofitting DALI-controlled dimming to any luminaire or ballast that accepts a standard 0-10V/1-10V analogue dim signal.

Key Features:

- Two independent DALI addresses on a single bus
- Selectable 0-10V or 1-10V output range per channel
- Per-channel relay output (enable/disable load)
- Configurable logarithmic or linear dimming curve
- Per-channel physical minimum voltage setting
- Compliant with IEC 62386-101 and IEC 62386-206 (DT5 Supply Unit)
- DALI energy reporting: Parts 251, 252, 253
- Non-volatile EEPROM storage; retains all settings through power loss

Specifications

Parameter	Value
DALI standard	IEC 62386-101:2014, IEC 62386-206 (DT5)
Supply voltage	12–24 V DC
Supply current (unloaded)	< 50 mA
DALI bus current	Per IEC 62386-101 (device draws < 2 mA)
Output type	0-10V or 1-10V analogue (selectable per channel)
Output voltage range	0-10V mode: 0 V – 10 V; 1-10V mode: 1 V – 10 V
Output current	< 50 mA per channel (source or sink)
Relay outputs	2 × SPDT relay (one per channel)
Relay contact ratings	NO: 16 A @ 250 V AC / 16 A @ 24 V DC; NC: 5 A @ 250 V AC / 5 A @ 24 V DC
PWM resolution	10-bit (1024 steps), 15.6 kHz carrier
Operating temperature	−20 °C to +50 °C
Firmware version	V3.0.00
Device model ID	0x0300

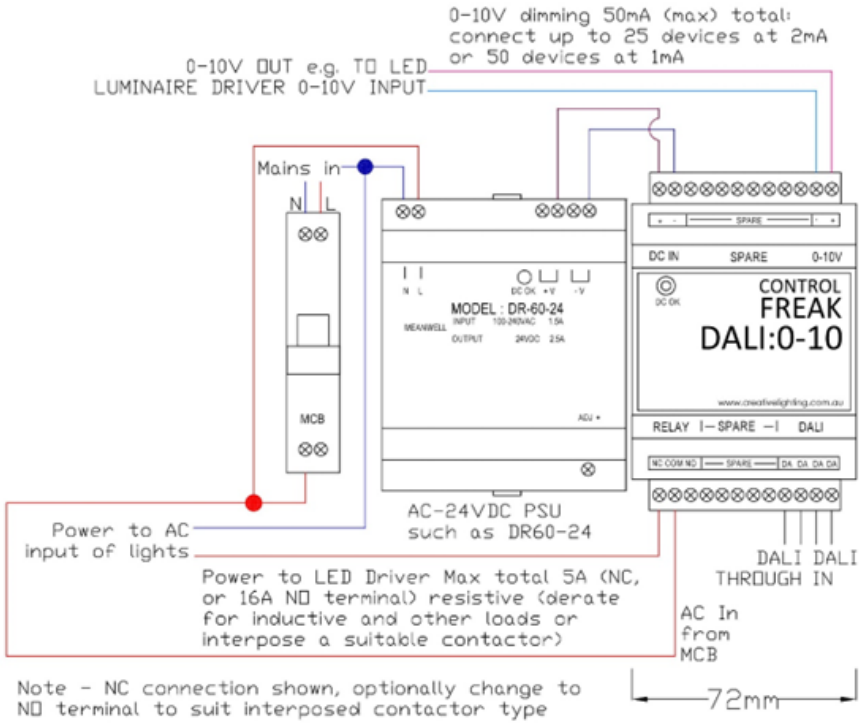
Connector Pinout

Terminal	Signal	Description
V+	Supply +	12–24 V DC positive
GND	Supply −	Supply ground / 0 V reference
DALI+	DALI bus	Non-polarised; either wire order
DALI−	DALI bus	Non-polarised; either wire order
CH0 OUT	Analogue 0	0-10V or 1-10V output, Channel 0
CH1 OUT	Analogue 1	0-10V or 1-10V output, Channel 1
CH0 COM	Relay COM	Channel 0 relay common
CH0 NO	Relay NO	Channel 0 normally-open contact (16 A / 250 V AC)
CH0 NC	Relay NC	Channel 0 normally-closed contact (5 A / 250 V AC)
CH1 COM	Relay COM	Channel 1 relay common

Terminal	Signal	Description
CH1 NO	Relay NO	Channel 1 normally-open contact (16 A / 250 V AC)
CH1 NC	Relay NC	Channel 1 normally-closed contact (5 A / 250 V AC)

Installation

Wiring Diagram



Power Requirements

The device requires a regulated 12–24 V DC supply. Do not connect directly to mains AC voltage. A suitable DIN-rail power supply rated $\geq$ 1 A is recommended for installations with multiple devices on one supply rail.

DALI Bus Wiring

- Use twisted pair for the DALI bus (0.5 mm² minimum; 1.5 mm² recommended for runs > 50 m).
- Polarity is not significant — either wire to either DALI terminal.
- Maximum recommended bus length: 300 m at 1.5 mm².
- Do not run DALI wiring in the same conduit as mains cables.

Relay Output

Each channel includes a volt-free SPDT relay contact:

- The NO contact **closes** when the DALI level is above 0 (output enabled).
- The NO contact **opens** when the DALI level is 0 (output disabled).
- The NC contact is the inverse: closed when level is 0, open when level is above 0.
- NO contact rated: 16 A @ 250 V AC / 16 A @ 24 V DC.

- NC contact rated: 5 A @ 250 V AC / 5 A @ 24 V DC.
- Use the NO contact to switch luminaire mains supply in 1-10V applications where the ballast does not extinguish at minimum analogue level.

DALI Commissioning

Refer to the shared DALI Commissioning chapter for full bus requirements, auto-addressing procedure, group and scene configuration, and troubleshooting.

Device-Specific Notes

- **Two addresses per device:** The converter presents as two independent DALI gear units — one per output channel. Both will be discovered and addressed independently during auto-commissioning.
- **Default settings after factory reset:**
  - Output mode: 0-10V
  - Dimming curve: Logarithmic
  - Physical minimum: Level 1 ($\approx$ 0.04 V)
  - Max level: 254 (10 V)
  - Min level: 1
  - Fade time: 0 (instant; $<$ 0.7 s)
  - Power-on level: Max (254)
  - System failure level: Max (254)

Standard DALI Commands

The converter implements the full IEC 62386-102 command set. Key commands:

Command	Code	Function
DAPC (Direct Arc Power)	0-31	Set level 0–254 (encoded in command byte)
RECALL MAX LEVEL	5	Go to max level
RECALL MIN LEVEL	6	Go to min level
STEP UP	7	Increase level by one step
STEP DOWN	8	Decrease level by one step
RECALL MAX (broadcast)	—	All channels to max simultaneously
GO TO SCENE n	16+n	Recall stored scene (0–15)
STORE SCENE n	64+n	Store current level as scene n (send twice)
ADD TO GROUP n	96+n	Add to group (send twice)
REMOVE FROM GROUP n	112+n	Remove from group (send twice)
QUERY STATUS	144	Return status byte
QUERY ACTUAL LEVEL	160	Return current arc power level (0–254)
QUERY MAX LEVEL	161	Return max level
QUERY MIN LEVEL	162	Return min level
QUERY PHYSICAL MIN	154	Return hardware minimum (floor level)
QUERY GROUPS 0-7	166	Return group membership bitfield
QUERY GROUPS 8-15	167	Return group membership bitfield
QUERY SCENE LEVEL n	176+n	Return stored level for scene n (0–15)
STORE DTR AS MAX LEVEL	42	Set max level to DTR value (send twice)
STORE DTR AS MIN LEVEL	43	Set min level to DTR value (send twice)

Command	Code	Function
STORE DTR AS POWER ON	44	Set power-on level (send twice)
STORE DTR AS FAIL LEVEL	45	Set system failure level (send twice)
STORE DTR AS FADE TIME	46	Set fade time (send twice)
STORE DTR AS FADE RATE	47	Set fade rate (send twice)
RESET	32	Restore IEC defaults (send twice)

DT5 Device-Type Commands

These commands are available after the master sends **ENABLE DEVICE TYPE 5**. All STORE commands require the repeat protocol (send twice within 100 ms).

Command	Code	Description
SET_OUTPUT_RANGE_1_10	224	Switch channel to 1-10V mode (floor = 1 V)
SET_OUTPUT_RANGE_0_10	225	Switch channel to 0-10V mode (floor = 0 V)
SWITCH_ON_PULLUP	226	Not implemented (hardware stub)
SWITCH_OFF_PULLUP	227	Not implemented (hardware stub)
STORE_DTR_AS_PHYSICAL_MIN	228	Set physical minimum level from DTR (0–254)
SELECT_DIMMING_CURVE	229	0 = logarithmic, 1 = linear
RESET_CONVERTER_SETTINGS	230	Restore converter defaults (0-10V, log curve)
QUERY_DIMMING_CURVE	238	Return 0 (log) or 1 (linear)
QUERY_OUTPUT_LEVEL	239	Return current arc power level (0–254)
QUERY_CONVERTER_FEATURES	240	Return 0x39 (IEC 62386-206 feature bits)
QUERY_FAILURE_STATUS	241	Return 0x00 (no fault hardware present)
QUERY_CONVERTER_STATUS	242	Bit 0: range (0=0-10V, 1=1-10V); Bit 2: curve
QUERY_EXTENDED_VERSION	255	Return 1

Output Range Selection

0-10V mode (default):

- DALI level 0 → 0.0 V output, relay opens
- DALI level 1 (physical min) → ≈ 0.04 V
- DALI level 254 → 10.0 V output

1-10V mode:

- DALI level 0 → 0.0 V output, relay opens
- DALI level at physical min → 1.0 V output
- DALI level 254 → 10.0 V output
- In 1-10V mode, the output clips to 1.0 V at physical minimum and scales from 1 V to 10 V over the DALI range, matching the IEC 60929 / IEC 61347-2-11 1-10V interface.

Physical Minimum Level

The **physical minimum** (P_min) is the lowest DALI level that produces a non-zero analogue output (i.e., a visible dimming floor). Sending a level below P_min causes the output to go fully off (0 V) rather than to an intermediate level.

- Default: 1 (factory reset value)
- Range: 1–254

- Set using: DTR ← desired value, then STORE_DTR_AS_PHYSICAL_MIN (send twice)

Dimming Curves

Curve	DALI Level to Voltage Mapping
Logarithmic	Perceptually linear — equal perceived brightness steps (IEC default)
Linear	Arithmetic: V_out = (level − P_min) × 10 V ÷ (254 − P_min)

Logarithmic is the default and is recommended for most luminaires.

DALI Memory Banks

The converter supports IEC 62386 memory bank extensions, accessed via the standard READ MEMORY LOCATION command sequence. All four banks are EEPROM-backed and persist through power cycling. Per-channel banks (202, 205) hold independent data for each output channel (Channel 0 = address 0, Channel 1 = address 1).

Bank 0 — Device Identification (IEC 62386-102 §9.10) — read-only

Location	Content
0x00	Last accessible location (0x1A)
0x01	Reserved (0xFF)
0x02	Last supported bank number
0x03–0x08	GTIN (6 bytes, big-endian)
0x09–0x0A	Firmware version (major, minor)
0x0B–0x12	Device ID / serial (8 bytes)
0x13–0x14	Hardware version (major, minor)
0x1A	Channel number (0 or 1)

All locations are read-only. Use READ MEMORY LOCATION (select bank 0 first via DTR).

Bank 1 — Asset Management (IEC 62386-251)

Location	Content
0x00	Last accessible location (0x25)
0x01	Indicator byte
0x02	Lock byte (0x55 = unlocked)
0x03–0x08	GTIN (48-bit, writable while unlocked)
0x09–0x10	Serial number (8 bytes)
0x11–0x12	OEM ID
0x13	Manufacture year
0x14	Manufacture week
0x15–0x16	Nominal input power (0.1 W units)
0x17–0x25	Hardware constants (read-only)

Locations 0x03–0x16 are writable via WRITE MEMORY LOCATION while the lock byte is 0x55.

Bank 202 — Energy Reporting (IEC 62386-252)

Location	Content
0x00	Last accessible location (0x0F)
0x01	Indicator byte
0x02	Lock byte
0x03	Bank version
0x04	Active energy scale (signed int8)
0x05–0x0A	Active energy (48-bit big-endian Wh; unit = 10^scale Wh)
0x0B	Active power scale (signed int8)
0x0C–0x0F	Active power (W, live reading)

Energy is accumulated every 10 ms tick and persisted to EEPROM hourly. Reading location 0x05 latches the counter. Each channel maintains independent energy data.

Bank 205 — Diagnostics (IEC 62386-253)

Location	Content
0x00	Last accessible location (0x0F)
0x01	Indicator byte
0x02	Lock byte
0x03	Bank version
0x04–0x07	Operating time (seconds, 32-bit big-endian)
0x08–0x0A	Start counter (24-bit big-endian)
0x0B–0x0C	Supply voltage (0.1 V, live)
0x0D	Supply frequency (Hz, live)
0x0E	Power factor (0–100 = 0.00–1.00, live)
0x0F	Overall failure status

Operating time is persisted to EEPROM on power-fail. Live fields (supply voltage, frequency, power factor) are not backed up and read as zero after a power cycle until the first measurement is taken.

Configuration Reference

All settings are stored in internal EEPROM and persist through power cycling. Settings marked **(send twice)** require the DALI repeat protocol.

Per-Channel Parameters

Parameter	DALI Command	Default	Range
Short address	PROGRAM SHORT ADDRESS (send twice)	0xFF	0–63, 0xFF
Max level	STORE DTR AS MAX LEVEL	254	1–254
Min level	STORE DTR AS MIN LEVEL	1	1–254
Physical minimum	DT5: STORE DTR AS PHYSICAL MIN	1	1–254
Power-on level	STORE DTR AS POWER ON LEVEL	254	0–255
System failure level	STORE DTR AS SYS FAILURE LEVEL	254	0–255

Parameter	DALI Command	Default	Range
Fade time	STORE DTR AS FADE TIME	0	0–15
Fade rate	STORE DTR AS FADE RATE	7	1–15
Output mode	DT5: 224 or 225	0-10V	0-10/1-10
Dimming curve	DT5: SELECT DIMMING CURVE (229)	Log (0)	0, 1

Power-on level 255: The device restores the level it had before the last power failure (not implemented in this firmware version — uses level 254).

Troubleshooting

Symptom	Likely Cause	Remedy
No 0-10V output	Level is 0 (relay open)	Send RECALL MAX or check DALI level
Output stuck at 1 V in 0-10V mode	1-10V mode active	Send DT5 command 225 (SET_OUTPUT_RANGE_0_10)
Output jumps at low levels	Linear curve selected	Switch to logarithmic (DT5 command 229, value 0)
Level below P_min goes to off	By design (IEC 62386-206)	Lower P_min or use level above P_min
Device not found during commissioning	Not connected to DALI bus	Check DALI wiring and bus voltage (9.5–22.4 V)
DALI LED not blinking	No bus activity	Check master is powered and sending heartbeat
Settings lost after power cycle	EEPROM write failed	Check supply voltage stability; re-commission
Both channels same address	Normal — separate short addresses	Re-commission with two separate address assignments

Warranty and Safety

Refer to the Safety Information and Warranty chapter.

DALI Commissioning

Overview

DALI (Digital Addressable Lighting Interface, IEC 62386) is a two-wire, half-duplex digital protocol for professional lighting control. A single DALI bus supports up to 64 individually addressed gear devices (ballasts, LED drivers, relay modules, converters). Each device can also belong to up to 16 groups and store up to 16 scene levels.

All Creative Lighting products conform to IEC 62386-101 (general/system requirements) and IEC 62386-102 (control gear), plus the relevant part for their device type: Part 206 for DT5 supply units, Part 207 for DT6 LED gear, Part 208 for DT7 switching, and Part 209 for DT8 colour control.

DALI Bus Requirements

Parameter	Specification
Topology	Bus (daisy-chain or star, no termination required)
Max devices per bus	64 individual addresses
Cable	Twisted pair recommended; unscreened acceptable
Max cable length	300 m (see note below)
Bus voltage	9.5–22.4 V DC (supplied by DALI controller/master)
Polarity	Non-polarised (either wire order)
Max bus current	250 mA total (shared across all devices)
Signal rate	1200 baud (Manchester-encoded)

Cable length note: 300 m is the IEC maximum assuming a 1.5 mm² conductor pair. Smaller conductors or high device counts reduce the effective maximum. For runs over 100 m, use 1.5 mm² or larger.

Before You Begin

Ensure the following are complete before starting commissioning:

1. All DALI gear is physically installed, wired, and powered from the appropriate supply (mains or low-voltage, depending on the product).
2. DALI wiring is terminated at both the controller and all gear.
3. The DALI master (controller, gateway, or commissioning tool) is connected and powered.
4. You have a record of which physical device/luminaire corresponds to each installation position — this will be needed when assigning addresses.

Step 1: Verify Bus Integrity

Before addressing, confirm the bus is healthy:

- Check DALI bus voltage at the master output: should read 9.5–22.4 V with no devices connected, dropping slightly ($\approx$ 2–4 V) with devices present.
- If bus voltage reads 0 V, check wiring continuity and that the master supply is powered and enabled.
- If bus voltage does not drop when devices are added, check that devices are wired to the DALI terminals (not mains or signal ground).

Step 2: Discover All Devices

Run your commissioning tool's **DALI device discovery** (auto-addressing) function. This assigns each device on the bus a unique short address (0–63); you can then remap or group the devices as required (see the following steps).

Discovery follows the standard DALI random-addressing procedure (IEC 62386-102 §9.11). Most commissioning tools — handheld programmers and building-management software — run the whole sequence automatically.

Note: Some commands require the **repeat** protocol — the master must send the same command twice within 100 ms. Creative Lighting firmware enforces this for all STORE and PROGRAM commands as required by the standard.

Step 3: Assign Short Addresses to Known Positions

After auto-discovery, devices have addresses in an arbitrary order. Use your commissioning tool to:

1. **Identify each device** — send the **IDENTIFY** command, or **RECALL MAXIMUM / MINIMUM**, so only that luminaire or output responds.
2. **Remap the address** as required to match the installation layout.

Step 4: Group Assignment (Optional)

Groups (0–15) let multiple gear respond simultaneously to a single command:

Command	Function
ADD TO GROUP n	Add this device to group n (0–15)
REMOVE FROM GROUP n	Remove this device from group n
RECALL MAXIMUM (group n)	Bring all group n devices to max level

Each device can be a member of up to 16 groups. Groups are non-exclusive.

Step 5: Scene Configuration (Optional)

Scenes (0–15) store a preset level per device. To store a scene:

1. Set each device to its desired level for the scene (DAPC or RECALL MAX/MIN).
2. Send **STORE SCENE n** to each device (or to a group) to save the current level as scene n.
3. Recall the scene later with **GO TO SCENE n**.

Scene levels are stored in non-volatile EEPROM and survive power cycling.

Step 6: Set Power-On and Failure Levels

Parameter	DALI Command	Description
Power-on level	SET MAX LEVEL / scene 0	Level at power-on (default: max)
System failure level	STORE DTR AS SYSTEM FAILURE	Level if DALI bus lost (default: max)
Maximum level	STORE DTR AS MAX LEVEL	Upper limit of arc power control
Minimum level	STORE DTR AS MIN LEVEL	Lower limit (must be $\geq$ physical minimum)

> **Best practice:** Set the power-on and system failure levels to **MASK (255)** so each device resumes its last level instead of jumping to a fixed value after a power or bus interruption.

Step 7: Verify and Document

1. Send **RECALL MAXIMUM** and **RECALL MINIMUM** to each address — verify output is correct.
2. Recall each scene — verify levels match design intent.
3. Test each group — verify membership is correct.
4. Record the short address-to-luminaire mapping in your as-built documentation.

Fade Rate and Fade Time

DALI supports smooth level transitions controlled by two parameters:

Parameter	Range	Default	Effect
Fade Rate	1–15	7	Rate of change when fading (steps per tick)
Fade Time	0–15	0	Transition time for scene recalls

Fade time 0 means instant (no fade), unless an extended fade time is configured (see below). Rates and times follow IEC 62386-102 Table 12.

> **Extended Fade Time:** All Creative Lighting products also support the IEC 62386-102 *extended fade time*, which allows fade durations of up to **16 minutes** — well beyond the ~90 s maximum of the standard Fade Time. The extended fade time only takes effect when the normal **Fade Time is set to 0**. (With both set to 0, the transition is instant.)

Device Type Commands

After standard addressing, device-type-specific commands become available. The master selects the active device type with **ENABLE DEVICE TYPE n** before sending commands in the range 224–255:

Device Type	Standard	Product	Commands 224–255
DT5	IEC 62386-206	DALI 0-10V Converter	Output range, P_min
DT6	IEC 62386-207	SLAMMO (LED)	Fast fade, thermal
DT7	IEC 62386-208	LIDA-D (Switching)	Thresholds, hysteresis
DT8	IEC 62386-209	SLAMMO (Colour)	XY, CCT, RGBWAF

Troubleshooting DALI Commissioning

Symptom	Likely Cause	Remedy
No devices found during discovery	Bus wiring open or polarity error	Check continuity; DALI is non-polarised
Bus voltage low (< 9 V) with devices	Too many devices or short on bus	Check for wiring shorts; reduce device count
Device responds intermittently	Cable too long or conductor too thin	Reduce length; increase to $\geq$ 1.5 mm²
Short address not retained after power	EEPROM write failure or voltage brownout	Check supply voltage; re-commission
Commissioning terminates early	Collision detected on bus	Re-run RANDOMISE; avoid simultaneous masters
Group command affects wrong devices	Group membership stored incorrectly	Re-send ADD/REMOVE GROUP commands

Safety Information and Warranty

Electrical Safety

This product operates in connection with mains voltage. **Installation must be performed by a licensed electrician** in accordance with all applicable local electrical codes and standards.

> **WARNING — Electric Shock Hazard.** Disconnect and isolate all power supplies before installing, wiring, or servicing this product. Verify isolation with an approved voltage tester before touching any conductors.

> **WARNING — High Voltage.** The mains supply wiring inside the enclosure or connected luminaire may be at lethal voltage. Keep hands clear of all uninsulated conductors.

> **WARNING — Permanent Installation.** This product is intended for permanent installation in a fixed wiring system. Do not use with portable or extension-cord installations.

Installation Requirements

- Install in dry locations unless the product is specifically rated for damp/wet locations.
- Ensure adequate ventilation around the product; do not block air-flow slots.
- Observe the maximum load rating marked on the product label.
- Connect only loads that match the output type (resistive, LED driver, motor) as specified in the product datasheets.
- DALI wiring must comply with IEC 62386-101. Recommended: twisted pair, $\leq$ 300 m, 9.5–22.4 V DALI bus

voltage supplied by the controller.

Compliance

This product has been designed and manufactured in accordance with:

- **IEC 62386** — Digital Addressable Lighting Interface
- **IEC 60669** — Switches for household and similar fixed electrical installations
- **AS/NZS 3820** — Essential requirements for electrical equipment (Australia/New Zealand)

Retain this manual and all associated documentation for the service life of the product.

Warranty

Creative Lighting Pty Ltd warrants this product to be free from defects in materials and workmanship for a period of **two (2) years** from the date of purchase by the original end-user, subject to the conditions below.

What Is Covered

Manufacturing defects and component failures under normal operating conditions within the specified electrical ratings.

What Is Not Covered

This warranty does not cover damage or failure arising from:

- Installation not in accordance with this manual or applicable electrical codes
- Operation outside the rated electrical specifications (voltage, current, temperature)
- Physical damage: crushing, flooding, fire, or other environmental events
- Unauthorised modification or repair
- Connection of incompatible loads or signal sources
- Normal wear of consumable parts (relays, fuses)

Making a Warranty Claim

Contact your authorised distributor or Creative Lighting directly with:

1. Proof of purchase (invoice or receipt)
2. A description of the failure and the conditions under which it occurred

Creative Lighting reserves the right to repair or replace the product at its discretion. Repaired or replaced products are warranted for the remainder of the original warranty period or 90 days from the date of repair, whichever is longer.

Limitation of Liability

TO THE MAXIMUM EXTENT PERMITTED BY LAW, CREATIVE LIGHTING PTY LTD SHALL NOT BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING LOSS OF REVENUE, LOSS OF DATA, PERSONAL INJURY, OR PROPERTY DAMAGE) ARISING FROM THE USE OR INABILITY TO USE THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE TOTAL CUMULATIVE LIABILITY OF CREATIVE LIGHTING PTY LTD IN CONNECTION WITH ANY CLAIM RELATING TO THIS PRODUCT SHALL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCT.

Contact

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