

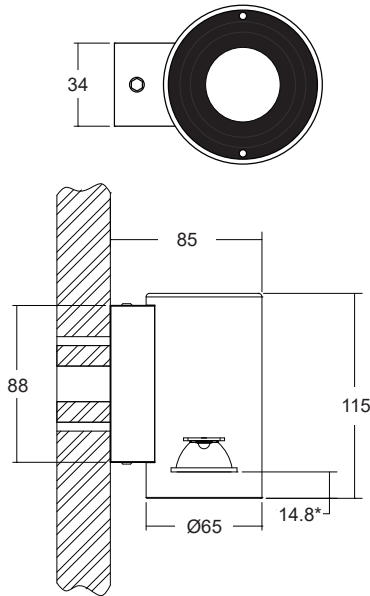
LD10237 with new E1 LED Light Engine



LED Up or Down Wall Washer

Data sheet - Page 2

Dimensions



* 4.3mm when using the taller RGBW optic
(Dimensions in mm)

Finish Options

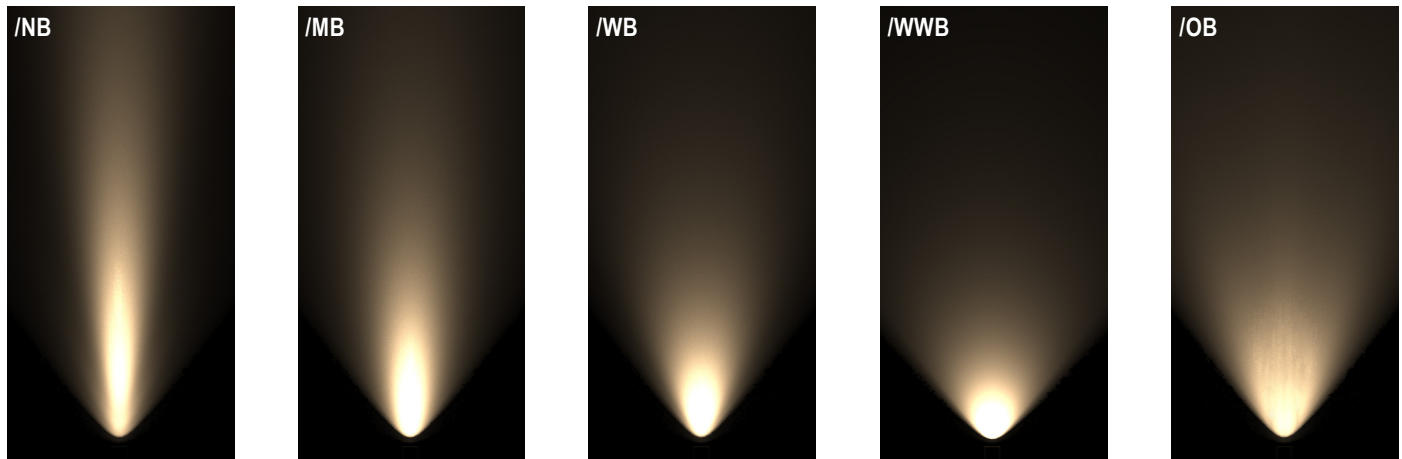
A range of finishes are available. Painted and anodised finishes are both suitable for exterior applications. However for harsh environments anodised is more hard wearing. Other finishes available.



*Fitting shown is a modified LD10236

Cone Diagrams

Cone diagrams below are based on a 3000K E1 LED engine run at maximum output 700mA, 10W. Example images shown is a fitting wall washing a 3m wall.



Narrow Beam
700mA using a 10° optic

| Distance (m) | Cone Width (m) | Luminance (lx) |
|--------------|----------------|----------------|
| 3.0 | 0.62 | 765 |
| 2.5 | 0.52 | 1102 |
| 2.0 | 0.41 | 1721 |
| 1.5 | 0.31 | 3060 |
| 1.0 | 0.21 | 6884 |
| 0.5 | 0.10 | 27538 |

Medium Beam
700mA using a 19° optic

| Distance (m) | Cone Width (m) | Luminance (lx) |
|--------------|----------------|----------------|
| 3.0 | 1.06 | 369 |
| 2.5 | 0.88 | 531 |
| 2.0 | 0.71 | 830 |
| 1.5 | 0.53 | 1475 |
| 1.0 | 0.35 | 3319 |
| 0.5 | 0.18 | 13278 |

Wide Beam
700mA using a 34° optic

| Distance (m) | Cone Width (m) | Luminance (lx) |
|--------------|----------------|----------------|
| 3.0 | 1.97 | 131 |
| 2.5 | 1.64 | 188 |
| 2.0 | 1.32 | 294 |
| 1.5 | 0.99 | 523 |
| 1.0 | 0.66 | 1176 |
| 0.5 | 0.33 | 4706 |

Extra Wide Beam
700mA using a 54° optic

| Distance (m) | Cone Width (m) | Luminance (lx) |
|--------------|----------------|----------------|
| 3.0 | 3.06 | 63 |
| 2.5 | 2.55 | 91 |
| 2.0 | 2.04 | 142 |
| 1.5 | 1.53 | 253 |
| 1.0 | 1.02 | 570 |
| 0.5 | 0.51 | 2279 |

Oval Beam
700mA using a 15° X 49° optic

| Distance (m) | Cone Width (m) | Luminance (lx) |
|--------------|----------------|----------------|
| 3.0 | 2.72 / 0.75 | 217 |
| 2.5 | 2.27 / 0.62 | 312 |
| 2.0 | 1.81 / 0.50 | 488 |
| 1.5 | 1.36 / 0.37 | 868 |
| 1.0 | 0.91 / 0.25 | 1952 |
| 0.5 | 0.45 / 0.12 | 7809 |

Photometric files (LDT) are included in the design pack which can be downloaded from the LD10237 product page on the website.

LD10237 with new E1 LED Light Engine

LED Up or Down Wall Washer

Data sheet - Page 3

Product Features**OPTIC**

Revised high efficiency optics with a new range of beam angles to create the ideal lit effect.

LED

- E1 LED engine.
- E1 LED engine, with the optional 2nd channel.
- TW Tunable White LED engine.
- RGBW LED engine with colour mix lens.
- CLR Colour LED engine.

BODY

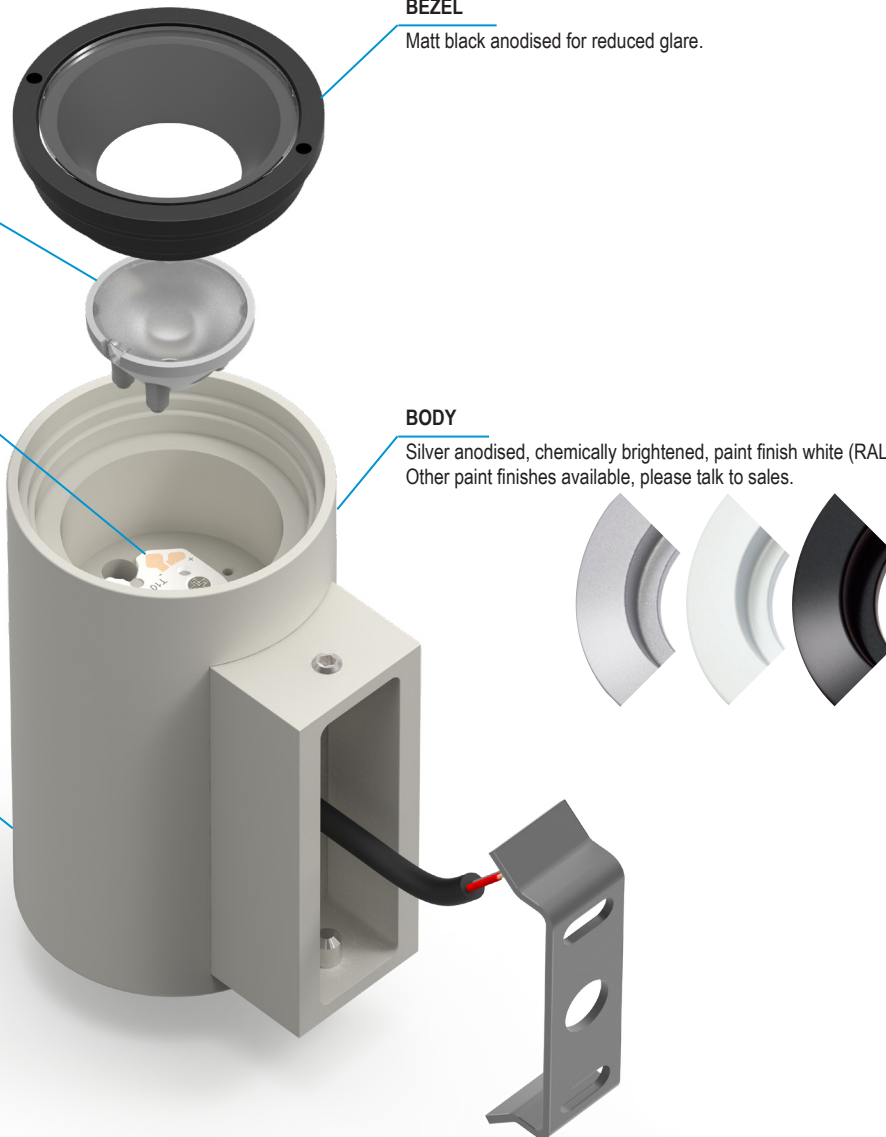
Machined and anodised body. 6000 series aluminium chosen for its thermal characteristics and resistance to corrosion.

BEZEL

Matt black anodised for reduced glare.

BODY

Silver anodised, chemically brightened, paint finish white (RAL 9016) / black / RAL. Other paint finishes available, please talk to sales.



LD10237 with new E1 LED Light Engine











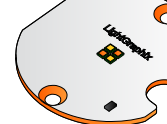

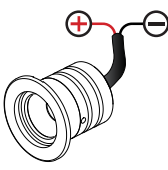
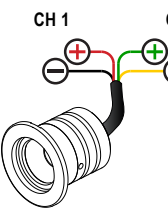
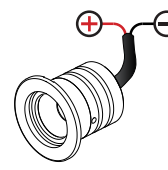
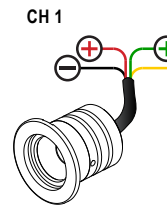
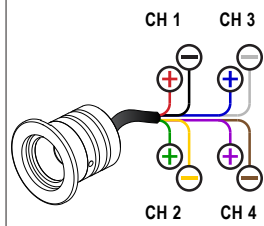
LED Up or Down Wall Washer

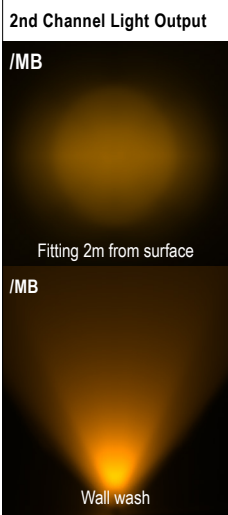
Data sheet - Page 4

LED Options and Technology

New LED Options

LD10237 is now available with a choice of light engines which feature a new all copper board for increased thermal transfer. The new E1 light engine for white light applications uses the new Cree XHP35 LED and features on board polarity protection.. This smaller LED chip has enabled a wider range of beam angles to be offered, coupled with increased efficiencies. This engine is also available with two extra LEDs on a second channel, for night lighting and marine navigation applications. The new tunable white engine offers a choice of dynamic colour options.


| | E1 Light Engine (White light)  | E1-2CH 2nd channel board  | CLR - Colour  | TW - Tunable White  | RGBW  |
|--------------|--|--|---|---|--|
| LED Board |  |  |  |  |  |
| LED type | Cree XHP35 | Cree XHP35 + XQE's | Cree XQE's | Cree XQE's | Cree XML |
| Key Features | <ul style="list-style-type: none"> - Available in 2700K, 3000K, 4000K and 5000K - Very small chip size - Tighter narrow beams - Wider range of beam angles - 2 step binning - Brighter more efficient LED - On board polarity protection - All copper LED board for increased thermal transfer | <ul style="list-style-type: none"> - Main white LED with optional 2nd channel for night lighting or marine navigation applications - 2nd channel comprises of 2 XQE LEDs mounted next to the XHP35 - Beam shape from the XQE's is different from the main LED as they are mounted to the sides of the optic - 2 driver circuits required - All copper LED board | <ul style="list-style-type: none"> - 4 colour XQE LEDs mounted under a single optic - All copper LED board - Red, Blue, Green and Amber colour LED options - Single LED circuit | <ul style="list-style-type: none"> - 4 XQE LEDs mounted under a single optic - 2 LEDs per colour - Excellent dynamic white mixing from a range of optics - All copper LED board - 2 driver circuits required | <ul style="list-style-type: none"> - RGBW LEDs mounted under a single 26deg optic for superb colour mixing - White LED is 4000K - All copper LED board - 4 LED circuits required |
| Cables |  |  |  |  |  |
| Lumen output | See front page | See front page | | See table below | |



| Colour temperature | Warm White 2700K or 3000K | Cool White 4000K or 5000K |
|--------------------------------------|----------------------------|---------------------------|
| Current | 500mA | 500mA |
| LED power (Max) All channels in use | 7W (6.3W) 3.5W per channel | |
| CRI (Min) | 85 | |
| Delivered lumens (L ₁₀₀) | 148lm | 188lm |
| Lumens per circuit watt | 42 | 54 |

Industry Leading LED Thermal Management

High quality, embedded copper PCB, with direct contact cooling for the LEDs providing industry leading thermal management of the LED. Guaranteeing long life and minimal colour shift.



LD10237

 with new E1 LED Light Engine

LED Up or Down Wall Washer



Data sheet - Page 5

Order Codes and Options

White LED Options - E1 Light Engine

| Product code | LED colour | Beam angle | Finish |
|------------------------------------|------------|------------|--------|
| LD10237-E1 - 350 - 500 - 700 | | | |

Example: LD10237-E1-500 / LW30 / NB / Silver Anodised

Product codes with output options

| | |
|------------------|----------------|
| 5W LED at 350mA | LD10237-E1-350 |
| 7W LED at 500mA | LD10237-E1-500 |
| 10W LED at 700mA | LD10237-E1-700 |

LED colour options

| LED colour options | Suffix |
|--|----------|
| Extra Warm White (2700K) | /LW27 |
| Warm White (3000K) | /LW30 |
| White (4000K) - on request | /LW40 |
| Cool White (5000K) | /LW50 |
| With 2nd channel (red for navigation or amber night lighting) LD10237-E1-2CH | /LW**+L* |

*Other LED colour temperatures are available. Please speak to a member of our sales team.

Beam / lens angle options

| | |
|-----------------|------|
| 10° narrow spot | /NB |
| 19° medium | /MB |
| 34° wide | /WB |
| 54° extra wide | /WWB |
| 15° x 49° oval | /OB |

Finish options

Silver anodised
Polished and chemically brightened (stainless steel effect)
Paint finish black / white (RAL 9016) / antique bronze / satin antique brass / satin brass / RAL finish

Use with 350mA, 500mA & 700mA constant current LED drivers

We have a wide range of dimmable LED drivers, 0-10V, DMX, DALI and Mains dimmable. Please see the downloads section on our website:
To run 1-4 LD10237-E1-350 in series use a TXDEL350D (0-10V dimmable)
To run 1-4 LD10237-E1-500 in series use a TXDEL500D (0-10V dimmable)
To run 1-3 LD10237-E1-700 in series use a TXDEL700D (0-10V dimmable)

Colour LED Options - CLR Light Engine

Example: LD10237-CLR-500 / LR / MB / Black / SMB

| LED colour options (max 500mA) | Suffix |
|--------------------------------|--------|
| Red | /LR |
| Green | /LB |
| Blue | /LG |
| Amber | /LA |

Driver requirements identical to E1 engine, beam angles identical to TW engine

Tunable White Options - TW Light Engine

| Product code | LED colour | Beam angle | Finish |
|---------------------------|------------|------------|--------|
| LD10237-TW - 350 - 500 | | | |

Example: LD10237-TW-500 / LW27 + LW40 / MB / Silver Anodised

Product codes with output options

| | |
|--|----------------|
| 5W LED at 350mA - 2 channels of 2 x 1.2W | LD10237-TW-350 |
| 7W LED at 500mA - 2 channels of 2 x 1.7W | LD10237-TW-500 |

LED colour options

| LED colour options | Suffix |
|---|--------------|
| Tunable White 2700K & 4000K (standard option) | /LW27 + LW40 |
| Tunable White 2700K & 5000K | /LW27 + LW50 |
| Custom | /LW** + LW** |

Fitting comprised of 2x LEDs in one colour temperature & 2x LEDs in another. Other white colour options available on request, please discuss with our sales team.

Beam / lens angle options

| | |
|---|------|
| Narrow spot not available due to poor colour mixing | |
| 24° medium | /MB |
| 38° wide | /WB |
| 54° extra wide | /WWB |
| 20° x 46° oval | /OB |

Finish options

Same as White LED options using the E1 Light Engine

Use with 350mA & 500mA constant current LED drivers

We have a wide range of dimmable LED drivers, 0-10V, DMX, DALI and Mains dimmable. Please see the downloads section on our website:
To run 1-7 LD10237-TW-350 in series use 2x TXDEL350D (0-10V dimmable)
To run 1-7 LD10237-TW-500 in series use 2x TXDEL500D (0-10V dimmable)

Colour Change RGBW Options - RGBW Light Engine

| Product code | Finish |
|-----------------------------|--------|
| LD10237-RGBW - 350 - 500 | |

Example: LD10237-RGBW-500 / Silver Anodised

Product codes with output options

| | |
|--------------------------------|------------------|
| 5W LED at 350mA (4x 1.2W LEDs) | LD10237-RGBW-350 |
| 7W LED at 500mA (4x 1.7W LEDs) | LD10237-RGBW-500 |

RGBW features a 4000K white LED for creating hues

Beam / lens angle

| | |
|---------------------|-----|
| 38° colour mix lens | /MB |
|---------------------|-----|

Finish options

Same as White LED options using the E1 Light Engine

Use with 350mA & 500mA constant current LED drivers

We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section on our website:
To run 2-13 LD10237-RGBW-350 in series use a TXDEL4A350DMX or TXDEL4A350DALI
To run 2-13 LD10237-RGBW-500 in series use a TXDEL4A500DMX or TXDEL4A500DALI