(700)

(350

(500

# LD10237 with new E1 LED Light Engine

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LED Up or Down Wall Washer



The new LD10237 features an all new E1 LED engine, along with a new range of optics. Tunable White and RGBW options are also available. A compact, high quality wall washer with excellent output. The LD10237 has a very minimal design ensuring it will blend into most interior and exterior project styles. Low glare has been achieved by setting the LED back into the fitting which is then held in place by a matt black anti glare ring. It has been used for general illumination and creating effects around buildings, as well as an extensive list of interior projects. It is available in a range of finishes.

#### Key Features

- New E1 engine, featuring the CREE XHP35 LED with 2-step binning
- New optional 2nd channel LEDs for secondary lighting applications
- New optics, featuring an impressively narrow 10° spot is for lighting columns and arches, or a 15°x 49° spreader lens,ideal for wall washing
- Single optic produces a very consistent beam with no multiple shadows
- LED and lens recessed in a matt black anodised bezel for reduced glare
- High quality machined components
- Interior or exterior use
- Minimal aesthetic enabling it to fit into most project styles
- Discreet fixing with two grub screws behind the body
- Built-in reverse polarity protection
- LD10237 is available with RGBW and Tunable White LED engines
- Available with Switch, 0-10V, DMX, Dali or Mains dimmable drivers



#### Specification

Colour temperature

Applications

Beam Angles

LED type

10°, 19°, 34°, 54°, 15°x 49° 1 x E1 LED Engine with 2-step binn

1 x E1 LED Engine with 2-step binning (LED data below) 2700K\*\* / 3000K / 4000K 5000K

Current	350mA	500mA	700mA	350mA	500mA	700mA
LED power (Max)	5W	7W	10W	5W	7W	10W
	(4.4W)*	(6.3W)*	(9W)*	(4.4W)*	(6.4W)*	(9W)*
CRI (Min)	85	85	85	80	80	80
Forward voltage (V)100	14V	14V	14V	14V	14V	14V
Delivered lumens (L100)	358	474	566	386	511	611
Lumens per circuit watt	71	67	56	77	73	61
LED lifetime (to 70% lumen maintenance)	50,000hrs at a max ambient temperature of 35°C (if higher ambient then run at 500mA up to 45°C)					
Glass	3mm thick low iron glass					
Materials	Anodised aluminium body, with stainless steel fixing bracket			g bracket		
Wiring	Comes pre-wired with 1m lead. Single colour equipped with 2 core cable, 2 Channel or TW engine with 4 core cable & RGBW with 8 core cable. Can be specified with up to 10m at extra cost.					

IP rating IP67

\*indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

\*\*2700K lumen output is 8% lower than the 3000K figure listed

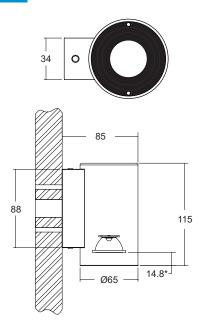


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**Finish Options** 

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.



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

### 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.

/WB

Wide Beam

Distance (m)

3.0

2.5

2.0

1.5

1.0

0.5

700mA using a 34° optic

1.97

1.64

1.32

0.99

0.66

0.33

Cone Width (m)

Luminance (Ix)

131

188

294

523

1176

4706



Narrow Beam 700mA using a 10° optic Distance (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				
Cone Width (m)						

/MB

Medium Beam 700mA using a 19° optic Distance (m) Luminance (lx)

Distance (III	) Lun	iniance (ix)		
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		
Cone Width (m)				

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



Extra Wide Beam 700mA using a 54° optic Distance (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	
Cone Width (m)			

Cone Width (m)



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

Distanc	e(m) Lun	ninance (lx)		
3.0	2.72 / 0.75	5 217		
2.5	2.27 / 0.62	2 312		
2.0	1.81 / 0.50	488		
1.5	1.36 / 0.37	7 868		
1.0	0.91 / 0.25	5 1952		
0.5	0.45/0.12	2 7809		
Cone Width (m)				



## LD10237 with new E1 LED Light Engine 350 (500 mA (700) IP67 F $\langle \mathbb{D} \rangle$ LED Up or Down Wall Washer Data sheet - Page 3 **Product Features** BEZEL Matt black anodised for reduced glare. OPTIC Revised high efficiency optics with a new range of beam angles to create the ideal lit effect. LED BODY - E1 LED engine. Chemically brightened, paint finish silver anodised / white (RAL 9016) / black / - E1 LED engine, with the RAL. Other paint finishes available, please talk to sales... optional 2nd channel. - TW Tunable White LED engine. - RGBW LED engine with colour mix lens. - CLR Colour LED engine. 1 BODY Machined and anodised body. 6000 series aluminium chosen for its thermal characteristics and resistance to corrosion.

# LD10237 with new E1 LED Light Engine



LED Up or Down Wall Washer

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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 - Colou	r 👪	TW - Tunable W	hite 🛞	RGBW	
LED Board								Jane J	ATT O
LED type	Cree XHP35	Cree XHP35 + XQE's	C	Cree XQE's		Cree XQE's		Cree XML	
Key Features	<ul> <li>Available in 2700K, 3000K, 4000K and 5000K</li> <li>Very small chip size</li> <li>Tighter narrow beams</li> <li>Wider range of beam angles</li> <li>2 step binning</li> <li>Brighter more efficient LED</li> <li>On board polarity protection</li> <li>All copper LED board for increased thermal transfer</li> </ul>	<ul> <li>Main white LED with o 2nd channel for night lig or marine navigation ap cations</li> <li>2nd channel comprise: XQE LEDs mounted ne: the XHP35</li> <li>Beam shape from the is different from the mai as they are mounted to sides of the optic</li> <li>2 driver circuits require - All copper LED board</li> </ul>	hting u pli s of 2 c xt to - XQE's in LED the	4 colour XQE L Inder a single of All copper LED Red, Blue, Gre colour LED optic Single LED circ	otic board en and Amber ns	<ul> <li>4 XQE LEDs mount a single optic</li> <li>2 LEDs per colour</li> <li>Excellent dynamic to mixing from a range</li> <li>All copper LED boa</li> <li>2 driver circuits required</li> </ul>	vhite of optics rd		D board
Cables		CH 1	СН 2 Э	<b>(</b>		CH 1	СН 2		CH 1 CH 3 (H) (H) (H) (H) (H) (H) (H) (H) (H) (H)
Lumen output	See front page	See front page				See table below			
2nd Channel Light Output //MB				<b>Thern</b> High qu	try Leading nal Manager	nent copper PCB,			
		Funable white lumen outp Colour temperature	Warm W		ool White 000K or 5000K		providing managm	ect contact cooling i industry lead ent of the LED. Gua ninimal colour shift.	ding thermal aranteeing long
<b></b>	)	Current	500mA	50	)0mA				
/MB All channe CRI (Min) Delivered I		LED power (Max) 7W (6. All channels in use 3.5W p		(6.3W) / per channel					
		( )		I		_			
		Delivered lumens (L <sub>100</sub> ) 148lm			38lm				$\sim$
		umens per circuit watt	42	54	ł				5



Wall wash

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# LD10237 with new E1 LED Light Engine

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LED Up or Down Wall Washer

### **Order Codes and Options**

## White LED Options - E1 Light Engine (88) (89)

Product code	LED colour	Beam angle	Finish
LD10237-E1 - 350			
- 500			
- 700			
Example: LD10237-E	1-500 / LW30 / NB	/ Silver Anodised	
Product codes with ou	utput 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			Suffix
· · · · · · · · · · · · · · · · · · ·			
Extra Warm White (2700K)			/LW27
Warm White (3000K)			/LW30
White (4000K) - on request			/I W40

 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.
 /LW\*\*+L\*

#### 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

Polished and chemically brightened (stainless steel effect)

Paint finish silver anodised / 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

(350

(500

Funable White Options - TW Light	t Engine
Product code LED colour LD10237-TW- 350 - 500	Beam Finish angle
Example: LD10237-TW-500 / LW27 + LV	W40 / 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	Suffi
Tunable White 2700K & 4000K (standard option)	
Tunable White 2700K & 5000K	/LW27 + LW50
Custom	/LW** + LW*
Fitting comprised of 2x LEDs in one colour tempe	
Other white colour options available on request, p	
Beam / lens angle options	
Narrow spot not available due to poor colour mixi	ng
24° medium	/ME
38° wide	/WI
54° extra wide	/WW
20° x 46° oval	/OI
Finish options	
Same as White LED options using the E1 Light E	ingine
Use with 350mA & 500mA constant curr	ent LED drivers
We have a wide range of dimmable LED drivers, Please see the downloads section on our website To run 1-7 LD10237-TW-350 in series use 2x TXI To run 1-7 LD10237-TW-500 in series use 2x TXI Colour Change RGBW Options -	e: DEL350D (0-10V dimmable) DEL500D (0-10V dimmable)
Product code Finish	
LD10237-RGBW - 350	
Example: LD10237-RGBW-500 / Silver	Anodicod
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-50
RGBW features a 4000K white LED for creating I	
Beam / lens angle	
38° colour mix lens	/ME
	/ivit
Finish options	
Same as White LED options using the E1 Light E	ngine

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

