LED Up or Down Wall Washer



### LD10237 with new E1 LED Light Engine

















Data sheet - Page 1





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

**Applications** 

Beam Angles

LED type









1 x E1 LED Engine with 2-step binning (LED data below)

Colour temperature	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) <sub>100</sub>	14V	14V	14V	14V	14V	14V
Delivered lumens (L <sub>100</sub> )	358	474	566	386	511	611
Lumens per circuit watt	71	67	56	77	73	61

LED lifetime (to 70% 50,000hrs at a max ambient temperature of 35°C lumen maintenance) (if higher ambient then run at 500mA up to 45°C)

Glass 3mm thick low iron glass

Anodised aluminium body, with stainless steel fixing bracket Materials Comes pre-wired with 1m lead. Single colour equipped with Wiring 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



<sup>\*\*2700</sup>K lumen output is 8% lower than the 3000K figure listed



## LD10237 with new E1 LED Light Engine

LED Up or Down Wall Washer











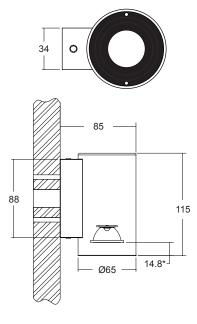






Data sheet - Page 2

### **Dimensions**



<sup>\* 4.3</sup>mm 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.

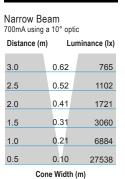


\*Fitting shown is a modified LD10236

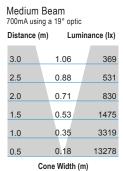
#### **Cone Diagrams**

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.

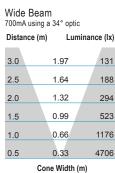














Wide Beam 700mA using a 34° optic				
Distance (m)	) Lum	ninance (lx)		
3.0	3.06	63		
2.5	2.55	91		
2.0	2.04	142		
1.5	1.53	253		
1.0	1.02	570		
0.5	0.51	2279		
Co	ne Width (	m)		



Oval Beam 700mA using a 15° X 49° optic				
Distance	(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	
	Cone \	Nidth (m)		

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











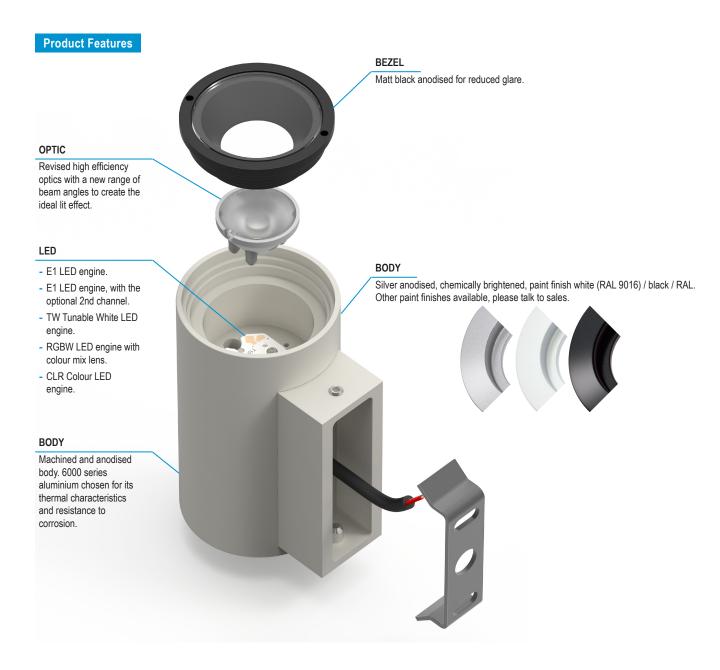






LED Up or Down Wall Washer

Data sheet - Page 3





### LD10237

with new E1 LED Light Engine



















LED Up or Down Wall Washer

Data sheet - Page 4

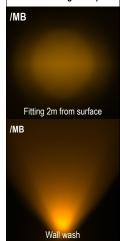
#### **LED Options and Technology**

#### **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	- 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	- 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	- 4 colour XQE LEDs mounted under a single optic - All copper LED board - Red, Blue, Green and Amber colour LED options - Single LED circuit	- 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	- 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		CH 1 CH 2		CH 1 CH 2	CH 1 CH 3
	<b>⊕</b>		⊕ ←		
					CH 2 CH 4
Lumen output	See front page	See front page		See table below	

#### 2nd Channel Light Output



Tunable white lumen output data				
Colour temperature	Warm White 2700K or 3000K	Cool White 4000K or 5000K		
Current	500mA	500mA		
LED power (Max)	7W (6.3W)			
All channels in use	3.5W per channel			
CRI (Min)	85			
Delivered lumens (L <sub>100</sub> )	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 managment 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 Option	ıs - E1 Light Engine	e (88) <b>E</b>	
Product code  LD10237-E1 - 350	LED colour     [	Beam angle	Finish
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	t		/LW40
Cool White (5000K)			/LW50
With 2nd channel (red for r	navigation or amber night li	ghting) LD10237-E1-2CI	H /LW**+L*
For other single colour opti	ons, please discuss with th	ne sales team	
Beam / lens angle opti	ions		
10° narrow spot			/NB
19° medium			/MB
34° wide			/WB
54° extra wide			/WWB
15° x 49° oval			/OB
Finish options			
Silver anodised			
Chemically brightened (Sta	inless steel effect)		
Paint finish black / white (R	(AL 9016) / RAL		
Use with 350mA, 500n	nA & 700mA constant	current LED drivers	
We have a wide range of d Please see the downloads To run 1-4 LD10237-E1-35 To run 1-4 LD10237-E1-50 To run 1-4 LD10237-E1-70	section on our website: 0 in series use a TXDEL35 0 in series use a TXDEL50	50D (0-10V dimmable) 00D (0-10V dimmable)	s 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 (S)



Product code	LED colour	Beam angle	Finish
LD10237-TW- 350 - 500			
Example: LD10237-1	W-500 / LW27 + LW	40 / MB / Silver A	Anodised
Product codes with o	utput options		
5W LED at 350mA - 2 cha	nnels of 2 x 1.2W		LD10237-TW-350
7W LED at 500mA - 2 cha	nnels of 2 x 1.7W		LD10237-TW-500
LED colour options			Suffix
Tunable White 2700K & 4	000K (standard option)		/LW27 + LW40
Tunable White 2700K & 5	000K		/LW27 + LW50
Custom			/LW** + LW**
Fitting comprised of 2x LE Other white colour options			
Beam / lens angle op	tions		
Narrow spot not available	due to poor colour mixin	g	
24° medium			/MB
38° wide			/WB
54° extra wide			/WWB
20° x 46° oval			/OB
Finish options			
Same as White LED optio	ns using the E1 Light En	gine	
Use with 350mA & 50	0mA constant curre	nt LED drivers	
We have a wide range of o Please see the downloads To run 1-7 LD10237-TW-3 To run 1-7 LD10237-TW-5	section on our website: 50 in series use 2x TXDI	EL350D (0-10V dimr	nable)

#### Colour Change RGBW Options - RGBW Light Engine



Joiour Change RGB	W Options - Roby	W Light Engine
Product code	Finish	
LD10237-RGBW - 350 - 500		
Example: LD10237-RGE	W-500 / Silver Anodis	ed
Product codes with outp	ut options	
5W LED at 350mA (4x 1.2W L	EDs)	LD10237-RGBW-350
7W LED at 500mA (4x 1.7W L	EDs)	LD10237-RGBW-500
RGBW features a 4000K white	e LED for creating hues	
Beam / lens angle		
38° colour mix lens		/ME
Finish options		
Same as White LED options u	sing the E1 Light Engine	
Use with 350mA & 500m.	A constant current LE	D drivers
	osite: 350 in series use a TXDEL	LI compatible. Please see the 4A350DMX or TXDEL4A350DALI 4A500DMX or TXDEL4A500DALI

