LED Up or Down Wall Washer



LD10237 with new E1 LED Light Engine











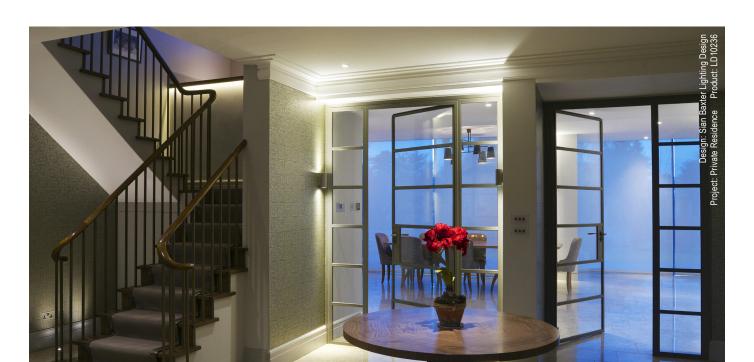






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The new LD10237 features an all new E1 LED engine, along with a new range of optics. Tunable White and RGBW options are also available. A compact, high quality wall washer with excellent output. The LD10237 has a very minimal design ensuring it will 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		/ 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 (L ₁₀₀)	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



^{**2700}K lumen output is 8% lower than the 3000K figure listed



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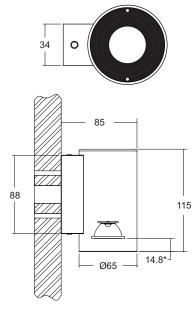






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Dimensions



* 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.

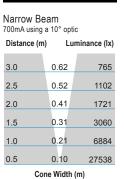


*Fitting shown is a modified LD10236

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.

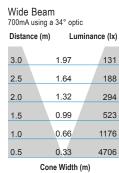




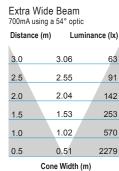


Medium Beam 700mA using a 19° optic					
Distance (m)	Luminance (lx)				
3.0	1.06	369			
2.5	0.88	531			
2.0	0.71	830			
1.5	0.53	1475			
1.0	0.35	3319			
0.5	0.18	13278			
Cone Width (m)					











Oval Beam 700mA using a 15° X 49° optic					
Distance	(m)	Lumina	Luminance (lx)		
0.0	0.70		0.17		
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 V	Vidth (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









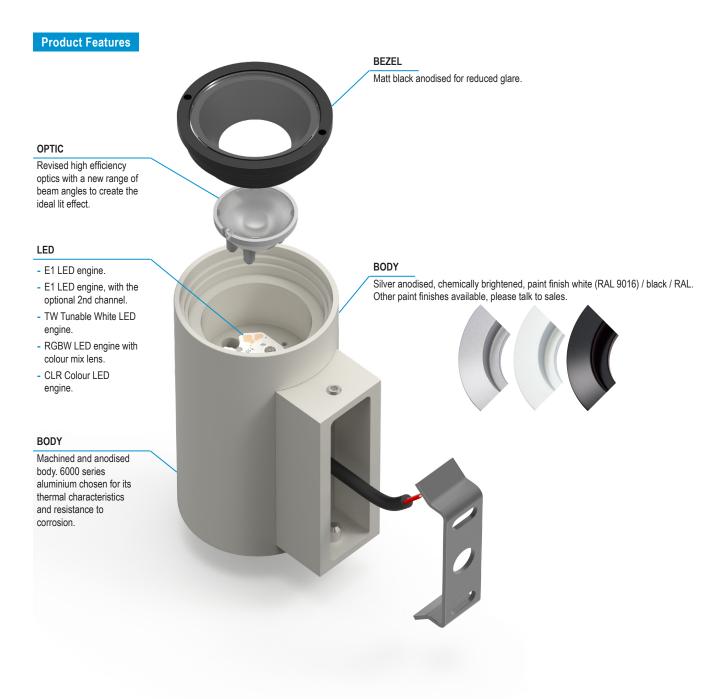








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LD10237

with new E1 LED Light Engine

















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LED Options and Technology

LED Up or Down Wall Washer

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					THE STATE OF THE S
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
	⊕ ⊕		⊕ ⊕		
					CH 2 CH 4
Lumen	See front page	See front page		See table below	

2nd Channel Light Output



Tunable white lumen output	unable white lumen output data				
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 managment of the LED. Guaranteeing long life and minimal colour shift.







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Order Codes and Options

White LED Options - E1 Light Engine





LD10237-E1-350

		_		
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

7W LED at 500mA	_D10237-E1-500
10W LED at 700mA	_D10237-E1-700
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*

Beam / lens angle options

Beam / lens ungle 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)

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

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 1-4 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 (SS)



Product code	LED colour	Beam angle	Finish
LD10237-TW- 350 - 500			
Example: LD10237-T	W-500 / LW27 + LW	/40 / MB / Silver A	nodised
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 & 40	000K (standard option)		/LW27 + LW40
Tunable White 2700K & 50	000K		/LW27 + LW50
Custom			/LW** + LW*
Fitting comprised of 2x LE Other white colour options			
Beam / lens angle opt	ions		
Narrow spot not available	due to poor colour mixir	ng	
24° medium			/ME
38° wide			/WE
54° extra wide			/WWE
20° x 46° oval			/OB
Finish options			
Same as White LED option	ns using the E1 Light Er	ngine	
Use with 350mA & 50	mA constant curre	ent LED drivers	
We have a wide range of or 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 TXD	: EL350D (0-10V dimm	nable)

Colour Change RGBW Options - RGBW Light Engine



