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### LD10236 with new E1 LED Light Engine 2 x LED Up And Down Wall Washer

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Mainte -

The new LD10236 features the all new E1 LED engine and a new range of optics. Tunable White and RGBW options are also available. A compact, high quality wall washer with excellent output. The LD10236 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. LD10236 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 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 body for reduced glare
- Interior or exterior use
- High quality machined components
- Discreet fixing with two grub screws behind the body
- Minimal aesthetic enabling it to fit into most project styles
- Range of finish options
- Built-in reverse polarity protection
- LD10236 is available with RGBW and Tunable White LED engines
- Available with Switch, 0-10V, DMX, Dali or Mains dimmable drivers



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Applications		
Beam Angles		

LED type



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

	Please note, data below is for 2 x E1 LEDs			E1 LEDs
Colour temperature	2700K** / 3000K / 4000K		5000K	
Current	350mA	500mA	350mA	500mA
LED power (Max)	10W	14W	10W	14W
	(8.8W)*	(12.6W)*	(8.8W)*	(12.6W)*
CRI (Min)	85	85	80	80
Forward voltage (V)100	28V	28V	28V	28V
Delivered lumens (L100)	715	951	772	1022
Lumens per circuit watt	71	67	77	73
LED lifetime (to 70%	50,000hrs at a max ambient temperature of 35°C			ure of 35°C
lumen maintenance)	(if higher ambient then run at 350mA up to 45°C)			
Glass	3mm thick low iron glass			
Materials	Anodised aluminium body, with stainless steel		ss steel	
	fixing brack	et		
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

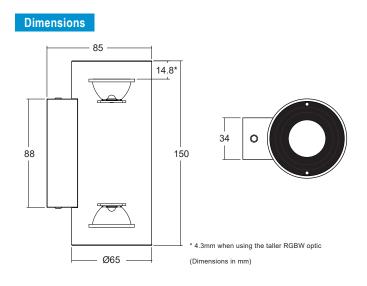


## LD10236 with new E1 LED Light Engine

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2 x LED Up And Down Wall Washer





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 RAL colour finishes available.

Paint Finish Paint Finish Silver Anodised White Paint Finish Black











#### Cone Diagrams

Cone diagrams below are based on a 3000K E1 LED engine run at maximum output 500mA in one direction.



Narrow Beam 500mA using a 10° optic

Distance (m) Luminance (lx)				
3.0	0.62	641		
2.5	0.52	922		
2.0	0.41	1441		
1.5	0.31	2562		
1.0	0.21	5765		
0.5	0.10	23061		
Cone Width (m)				

/МВ

Medium Beam 500mA using a 19° optic Distance (m) Luminance (lx)

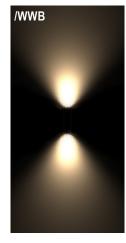
3.0	1.06	302		
2.5	0.88	435		
2.0	0.71	680		
1.5	0.53	1210		
1.0	0.35	2722		
0.5	0.18	10887		
Cone Width (m)				

Photometric files (LDT) are included in the design pack which can be downloaded from the LD10236 product page on the website.



Wide Beam 500mA using a 34° optic Distance (m) Luminance (lx)

3.0	1.97	107
2.5	1.64	154
2.0	1.32	241
1.5	0.99	429
1.0	0.66	965
0.5	0.33	3860
	Cone Width (m	)



Extra Wide Beam 500mA using a 54° optic Distance (m) Luminance (ix)

N		
3.0	3.06	52
2.5	2.55	75
2.0	2.04	117
1.5	1.53	208
1.0	1.02	467
0.5	0.51	1869





Oval Beam 500mA using a 15° X 49° optic Distance (m)

Distance		mance (ix)
3.0	2.72 / 0.75	189
2.5	2.27 / 0.62	272
2.0	1.81 / 0.50	425
1.5	1.36 / 0.37	756
1.0	0.91 / 0.25	1701
0.5	0.45/0.12	6806
	Cone Width (n	n)

Cone Width (m)





## LD10236 with new E1 LED Light Engine

### 88 👀 😢 🗱 🐝 500 (P67 F/ 🗇

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LED Options and Technology

#### **New LED Options**

LD10236 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		- Colour	TW - Tunable Wh	ite 🛞 RC	GBW	•
LED Board						•	Jan Barris	
LED type	Cree XHP35	Cree XHP35 + XQE's	Cree X	(QE's	Cree XQE's	Cre	ee 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 op 2nd channel for night ligt or marine navigation app cations</li> <li>2nd channel comprises XQE LEDs mounted nex the XHP35</li> <li>Beam shape from the &gt; is different from the main as they are mounted to t sides of the optic</li> <li>2 driver circuits require - All copper LED board</li> </ul>	hting under a oli All co - Red, colour tt to - Single KQE's h LED he	bur XQE LEDs mounte a single optic pper LED board Blue, Green and Ambe LED options e LED circuit	a single optic - 2 LEDs per colour	a s col inite - W optics - Al - 4	GBW LEDs mounted i ingle 26deg optic for s our mixing /hite LED is 4000K II copper LED board LED circuits required	
Cables		CH 1	CH 2		CH 1	СН 2	CH 1	CH 3
Lumen output	See front page	See front page			See table below			
2nd Chann /MB	el Light Output					Thermal High quality,	Leading LED Management embedded copper P	
		Tunable white lumen outp Colour temperature	Warm White	Cool White		providing in managment of	ontact cooling for the LE ndustry leading ther f the LED. Guaranteeing lead of our shift	rmal
		Current	2700K or 300 500mA	0K 4000K or 500 500mA		life and minima	מי טטוטער סוווון.	
Fitting 2m from surface     Current     Source       ILED power (Max)     7W (6.3W)       All channels in use     3.5W per channel								
		CRI (Min)	85			128.		
		Delivered lumens (L <sub>100</sub> )	148lm	188lm				/
		umens per circuit watt	42	54				

Wall wash

# LD10236 with new E1 LED Light Engine

2 x LED Up And Down Wall Washer



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#### Order Codes and Options

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

Product code	LED colour	Beam angle(s)	Finish
LD10236-E1 - 350 - 500			
Example: LD10236-E	1-500 / LW30 / NB	/ NB / Silver Anodis	ed

Product codes with output options	
10W LED at 350mA	LD10236-E1-350
14W LED at 500mA	LD10236-E1-500
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) LD10236-E1-20	CH /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**

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 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 1-2 LD10236-E1-350 in series use a TXDEL350D (0-10V dimmable)
To min 4.0   D40000 E4 500 in action was a TVDEI 500D (0.40) ( dimensional)

To run 1-2 LD10236-E1-500 in series use a TXDEL500D (0-10V dimmable)

#### Colour LED Options - CLR Light Engine

Example: LD10236-CLR-500 / LR / MB / MB / Silver Anodised

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 (88)

Product code	LED colour	Beam angle(s)	Finish
LD10236-TW- 350 - 500 Example: LD10236-T	W-500 / LW27 + LW	40 / MB / MB / Sil	ver Anodised
Product codes with or	utput options		
10W LED at 350mA - 2 cha	annels of 4 x 1.2W		LD10236-TW-35
14W LED at 500mA - 2 cha	annels of 4 x 1.7W		LD10236-TW-50
LED colour options			Suffix
Tunable White 2700K & 40	00K (standard option)		/LW27 + LW40
Tunable White 2700K & 50	00K		/LW27 + LW50
Custom			/LW** + LW*
Fitting comprised of 2x LEI Other white colour options			
Beam / lens angle opt	ions		
Narrow spot not available of	due to poor colour mixing	J	
24° medium			/ME
38° wide			/WE
54° extra wide			/WWE
20° x 46° oval			/OE
Finish options			
Same as White LED optior	ns using the E1 Light Eng	jine	
Use with 350mA & 500	)mA constant currer	nt LED drivers	
We have a wide range of d	immable LED drivers, 0-	10V DMX DALL and	Mains dimmable

To run 1-3 LD10236-TW-350 in series use a 2x TXDEL350D (0-10V dimmable) To run 1-3 LD10236-TW-500 in series use a 2x TXDEL500D (0-10V dimmable)

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

		<u> </u>
Product code	Finish	
LD10236-RGBW - 350		
- 500		
Example: LD10236-R0	GBW-500 / Silver Anodise	d
Product codes with ou	tput options	
10W LED at 350mA (8x 1.2)	W LEDs)	LD10236-RGBW-350
14W LED at 500mA (8x 1.7)	W LEDs)	LD10236-RGBW-500
RGBW features a 4000K wh	nite LED for creating hues	
Beam / lens angle option	ons	
38° colour mix lens		
Finish options		
Same as White LED options	s using the E1 Light Engine	
Use with 350mA & 500	mA constant current LED	drivers
downloads section on our w		compatible. Please see the

To run 1-6 LD10236-RGBW-350 in series use a TXDEL4A350DMX or TXDEL4A350DALI To run 1-6 LD10236-RGBW-500 in series use a TXDEL4A500DMX or TXDEL4A500DALI

