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

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Martha -

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



Specification

Applications	
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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** / 30	000K / 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			
lumen maintenance)	(if higher ambient then run at 350mA up to 45°C)			up to 45°C)
Glass	3mm thick low iron glass			
Materials	Anodised aluminium body, with stainless steel			
	fixing brack	et		
Wiring	Comes pre-wired with 1m lead. Single colour			
		th 2 core cable		
	engine with 4 core cable & RGBW with 8 core cable. Can be specified with up to 10m at extra cost.			
IP rating	IP67			
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*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

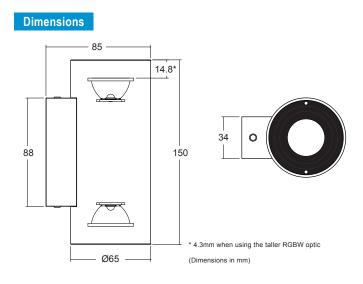


LD10236 with new E1 LED Light Engine

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2 x LED Up And Down Wall Washer



/MB

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 RAL colour finishes available.



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 (Ix)

0.62

0.52

0.41

0.31

0.21

0.10

641

922

1441

2562

5765

23061

3.0

2.5

2.0

1.5

1.0

0.5

Medium Be	am	

500mA using a 19° optic Distance (m) Luminance (Ix)

	. ,	• • •			
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)					

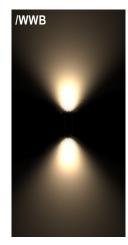
Cone Width (m)

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)

Distance (III)	Lumm	Luminance (ix)		
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		
Cor	e Width (m)			



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

h		
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
	18P 101 /	,

Cone Width (m)

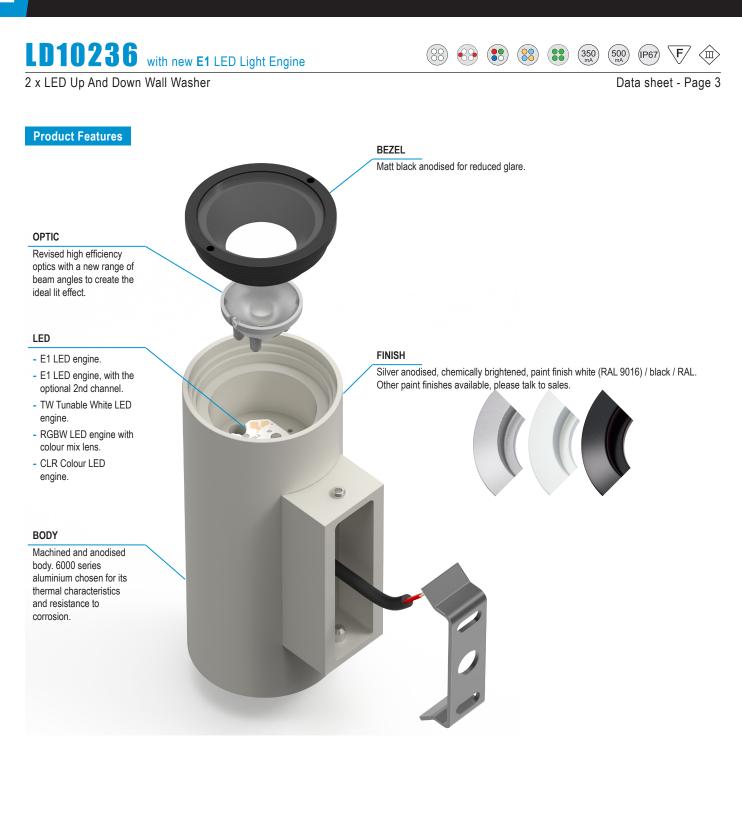


Oval Beam 500mA using a 15° X 49° optic Distance (m) Luminance (Ix)

		,
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 (m	0

Cone Width (m)







LD10236 with new E1 LED Light Engine

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2 x LED Up And Down Wall Washer

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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	CLR-	Colour 🕃	TW - Tunable White	RGBW
LED Board				*		Jar Carto
LED type	Cree XHP35	Cree XHP35 + XQE's	Cree XQ	E'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 op 2nd channel for night ligh or marine navigation app cations 2nd channel comprises XQE LEDs mounted nex the XHP35 Beam shape from the X is different from the main as they are mounted to tl sides of the optic 2 driver circuits required - All copper LED board 	nting under a s oli- of 2 t to Colour Lf t to Colour Lf - Red, Bl colour Lf - Single l Colour Lf - Single l Colour Lf - Single l	r XQE LEDs mounted single optic oer LED board ue, Green and Amber ED options 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 1 CH 3 CH 2 CH 4
Lumen output	See front page	See front page			See table below	
2nd Chann /MB	el Light Output				The	ustry Leading LED rmal Management
		Tunable white lumen outpu			with o	quality, embedded copper PCB, direct contact cooling for the LEDs
		Colour temperature	Warm White 2700K or 3000I	Cool White 4000K or 5000K		ling industry leading thermal gment of the LED. Guaranteeing long id minimal colour shift.
Eitting 0	Im from ourfood	Current	500mA	500mA		
Fitting 2	/	LED power (Max) All channels in use	7W (6.3W) 3.5W per channe			
			85			
		Delivered lumens (L100)	148lm	188lm		
		Lumens 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) (89)

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-E1-2	2CH /LW**+L*
For other single colour options, please discuss with the 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

Chemically brightened (Stainless steel effect) Paint finish black / white (RAL 9016) / RAL

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 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

Product code	LED colour	Beam angle(s)	Finish
LD10236-TW- 350 - 500			
Example: LD10236-T	W-500 / LW27 + LW40) / MB / MB / Silv	ver Anodised
Product codes with o	utput options		
10W LED at 350mA - 2 channels of 4 x 1.2W			LD10236-TW-350
14W LED at 500mA - 2 channels of 4 x 1.7W			LD10236-TW-50
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 LE Other white colour options	Ds in one colour temperatu available on request, plea		
Beam / lens angle opt	tions		
Narrow spot not available	due to poor colour mixing		
24° medium			/ME
38° wide			/WE
54° extra wide			/WWE
20° x 46° oval			/OE
Finish options			
Same as White LED option	ns using the E1 Light Engii	ne	
Use with 350mA & 50	0mA constant current	LED drivers	

Please see the downloads section on our website: 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

		0
Product code	Finish	
LD10236-RGBW - 350 - 500		
	GBW-500 / Silver Anodis	ed
Product codes with out	tput options	
10W LED at 350mA (8x 1.2)	N LEDs)	LD10236-RGBW-350
14W LED at 500mA (8x 1.7W LEDs)		LD10236-RGBW-500
RGBW features a 4000K wh	ite LED for creating hues	
Beam / lens angle optic	ons	
38° colour mix lens		
Finish options		
Same as White LED options	using the E1 Light Engine	
Use with 350mA & 500r	mA constant current LE	D drivers
We have a range of dimmab		LI compatible. Please see the

downloads section on our website: 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

