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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					
Colour temperature	2700K** / 30	00K / 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 ar	nbient then ru	un at 350mA	up to 45°C)		
Glass	3mm thick I	ow iron glass				
Materials	Anodised al	uminium body	y, with stainle	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

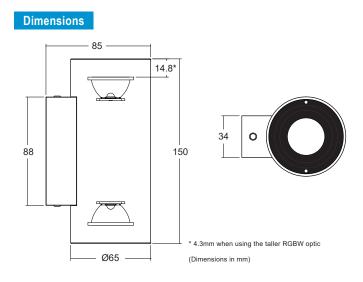


LD10236 with new E1 LED Light Engine

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2 x LED Up And Down Wall Washer



/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

Cone Width (m)

641

922

1441

2562

5765

23061

3.0

2.5

2.0

1.5

1.0

0.5

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

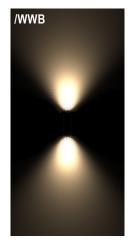
	,	,				
3.0	1.06	302				
2.5	0.88	435				
2.0	0.71	680				
1.5	0.53	1210				
1.0	0.35	2722				
0.5	0.18	10887				
Cone Width (m)						

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)

	. ,	• • •
0.0	4.07	407
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 (n	n)



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

h			
3.0		3.06	52
2.5		2.55	75
2.0		2.04	117
4.5		4.50	000
1.5		1.53	208
1.0		1.02	467
1.0		1.02	407
0.5		0.51	1869
	-		



ЛОВ

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

Distance		intance (ix)
2.0	2.72 / 0.75	5 189
3.0	2.12/0.13	109
2.5	2.27 / 0.62	2 272
2.0	1.81 / 0.50	425
1.5	1.36 / 0.37	7 756
1.0	0.91 / 0.25	5 1701
0.5	0.45/0.12	2 6806
	Cone Width	(m)

Cone Width (m)







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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		- Colour		TW - Tunable W	hite <mark>8</mark>	RGBW	
LED Board								Jane I	N O O
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 op 2nd channel for night ligh or marine navigation app cations 2nd channel comprises XQE LEDs mounted nexi the XHP35 Beam shape from the X is different from the main as they are mounted to th sides of the optic 2 driver circuits required - All copper LED board 	ting under li All ca - Red, of 2 colour t to - Sing (QE's LED ne	lour XQE LED a single optic opper LED boa , Blue, Green a LED options le LED circuit	ard	 4 XQE LEDs mounta a single optic 2 LEDs per colour Excellent dynamic w mixing from a range of - All copper LED boar 2 driver circuits required 	vhite of optics rd	- RGBW LEDs n a single 26deg d colour mixing - White LED is 4 - All copper LEE - 4 LED circuits	optic for superb 4000K 0 board
Cables		CH 1	сн 2	O	-0	CH 1	сн 2	<u>O</u>	CH 1 CH 3
Lumen output	See front page	See front page				See table below			
2nd Chann /MB	el Light Output						Thern	try Leading nal Managem uality, embedded	ient
		unable white lumen outpu	ut data					ect contact cooling	for the LEDs
		Colour temperature	Warm White 2700K or 300		White K or 5000K		managm	ent of the LED. Gua ninimal colour shift.	
Fittina 2	m from curfaco	Current	500mA	500m	A	_			
/MB		ED power (Max) All channels in use	7W (6.3W) 3.5W per chan	nel					
		CRI (Min)	85			-	(,	Light Contract	
		Delivered lumens (L100)	148lm	188lr	n	-			
		umens per circuit watt	42	54		7			

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

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-E1-2CH	H /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

Polished and chemically brightened (stainless steel effect)

Paint finish 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 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 Bei colour angl	
LD10236-TW- 350 - 500		
	W-500 / LW27 + LW40 / MB	/ MB / Silver Anodised
Product codes with o	utput options	
10W LED at 350mA - 2 ch	annels of 4 x 1.2W	LD10236-TW-350
14W LED at 500mA - 2 ch	annels of 4 x 1.7W	LD10236-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*
Filling comprised of Ov LE		
0 1	Ds in one colour temperature & 2x available on request, please discu	
0 1	available on request, please discu	
Other white colour options	available on request, please discu tions	
Other white colour options Beam / lens angle opt	available on request, please discu tions	
Other white colour options Beam / lens angle opt Narrow spot not available	available on request, please discu tions	iss with our sales team.
Other white colour options Beam / lens angle opt Narrow spot not available 24° medium	available on request, please discu tions	iss with our sales team. /ME /WE
Other white colour options Beam / lens angle opti Narrow spot not available 24° medium 38° wide	available on request, please discu tions	iss with our sales team. /ME /WW
Other white colour options Beam / lens angle opti Narrow spot not available 24° medium 38° wide 54° extra wide	available on request, please discu tions	iss with our sales team. /ME /WW
Other white colour options Beam / lens angle options Narrow spot not available 24° medium 38° wide 54° extra wide 20° x 46° oval Finish options	available on request, please discu tions	iss with our sales team.

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 1-3 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

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Product code	Finish			
LD10236-RGBW - 350				
- 500				
Example: LD10236-R	GBW-500 / Silver Anodised			
Product codes with ou	Itput 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 w	hite LED for creating hues			
Beam / lens angle opti	ons			
38° colour mix lens				
Finish options				
Same as White LED options	s using the E1 Light Engine			
Use with 350mA & 500mA constant current LED drivers				
downloads section on our w	ble LED drivers DMX and DALI co vebsite:			

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

