2 x LED Up And Down Wall Washer

















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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



Beam Angles

LED type

Materials









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** / 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 (L ₁₀₀)	715	951	772	1022
Lumens per circuit watt	71	67	77	73
LED lifetime (to 70% lumen maintenance)	50,000hrs at a max ambient temperature of 35°C (if higher ambient then run at 350mA up to 45°C)			
Glass	3mm thick low iron glass			

fixing bracket 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.

Anodised aluminium body, with stainless steel

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













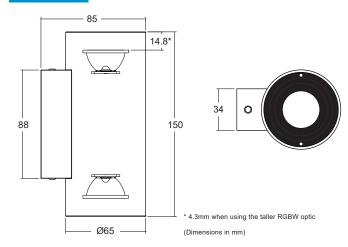




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Dimensions



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.

Silver Anodised



Paint Finish White

Paint Finish Black



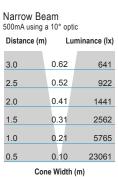




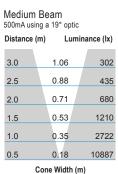
Cone Diagrams

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



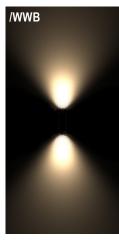








Wide Beam 500mA using a 34° optic				
Distance (m) Luminance (lx)				
3.0	1.97	107		
2.5	2.5 1.64 15			
2.0	1.32	241		
1.5	0.99	429		
1.0	0.66	965		
0.5	0.33	3860		
Cone Width (m)				



Extra Wide		С
Distance (m)) Lui	minance (lx)
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
Co	ne Width	(m)



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

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









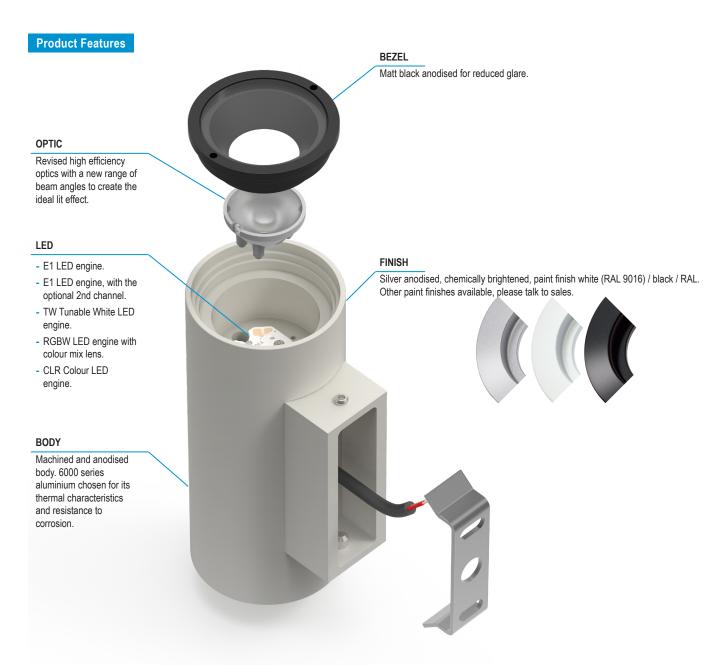






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LED Options and Technology

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					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 data			
Colour temperature	Warm White Cool White 2700K or 3000K 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 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	€€
Product code LED Beam angle(s	
Example: LD10236-E1-500 / LW30 / NB / NB / Silver	Anodised
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) LD1	0236-E1-2CH /LW**+L*
*Other LED colour temperatures are available. Please speak to a member of our sales	s 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 antic RAL finish	que brass / satin brass /
Use with 350mA & 500mA constant current LED drive	ers
We have a wide range of dimmable LED drivers, 0-10V, DMX, DA Please see the downloads section on our website: To run 1-2 LD10236-E1-350 in series use a TXDEL350D (0-10V of the control of	

Colour LED Options - CLR Light Engine

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



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 (28)



Product code	LED colour	Beam angle(s)	Finish
LD10236-TW- 350 - 500			
Example: LD10236-T	W-500 / LW27 + I	-W40 / MB / MB	/ Silver Anodised
Product codes with or	utput options		
10W LED at 350mA - 2 cha	annels of 4 x 1.2W		LD10236-TW-350
14W LED at 500mA - 2 cha	annels of 4 x 1.7W		LD10236-TW-500
LED colour options			Suffix
Tunable White 2700K & 40	00K (standard option	1)	/LW27 + LW40
Tunable White 2700K & 50	000K		/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 mi	xing	
24° medium			/MB
38° wide			/WB
54° extra wide			/WWB
20° x 46° oval			/OB
Finish options			
Same as White LED option	ns using the E1 Light	Engine	
Use with 350mA & 500	mA constant cur	rent LED driver	s
We have a wide range of d Please see the downloads To run 1-3 LD10236-TW-39 To run 1-3 LD10236-TW-50	section on our websi 50 in series use a 2x	te: TXDEL350D (0-10)	V dimmable)
		,	,

Colour Change RGBW Options - RGBW Light Engine



