















High Power Surface Mounted Adjustable Interior/Exterior LED Spotlight

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The new LD10238 features the all new E1 White LED engine, along with a new range of optics. Tunable White and RGBW options have also been added to the range. A compact, high power spotlight, with excellent output suitable for use in the harshest of external conditions. The LD10238 has a very minimal design ensuring it will blend into most interior and exterior project styles. The use of a single optic ensures excellent beam shape and soft edge. It comes with a wide range of fixing options and accessories and is available in a choice 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
- Low glare is achieved with a cowl, as well as recessing the LED and lens assembly deep within the body
- Optional glare louvre available
- Lockable tilt adjustment
- High quality machined components
- Single optic produces a very consistent beam with no multiple shadows
- Wide range of fixing options
- Range of finish options
- Built-in reverse polarity protection
- LD10238 is available with RGBW and Tunable White LED engines
- Available with Switch, 0-10V, DMX, Dali or Mains dimmable drivers



Specification for E1 LED Engine

Applications

Beam Angles

LED type









10°, 19°, 34°, 54°, 15°x 49°

1 x E1 LED Engine with 2-step binning (LED data below)

Colour temperature	2700K** / 3000K / 4000K			5000K		
Current	350mA	350mA 500mA 700mA		350mA 500mA 700		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	68	56	77	73	61

LED lifetime (to 70% lumen maintenance)

50,000hrs at a max ambient temperature of 35°C (if higher ambient then run at 500mA up to 45°C)

Glass 3mm thick low iron glass

Materials Anodised aluminium body, with stainless steel 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.

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



















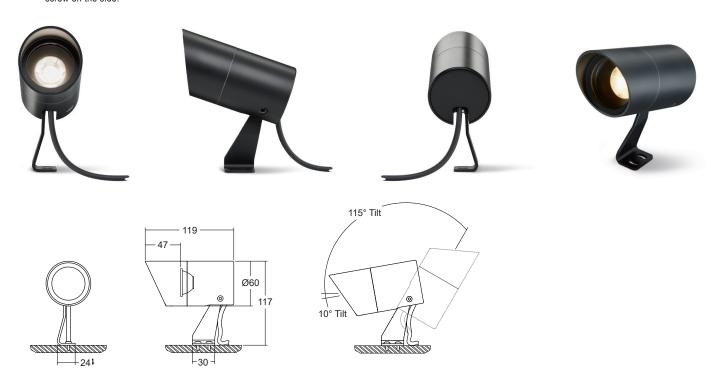


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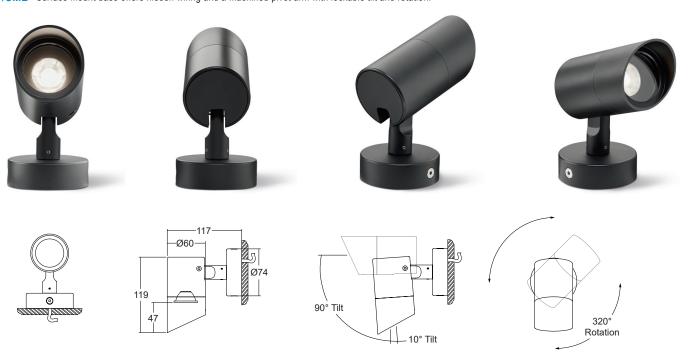
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Fixing options and dimensions

/SAM Surface adjustable mounting is screwed to the mounting surface and allows for minor rotational adjustment. The tilt adjustment is lockable via the socket head screw on the side.



/SMB Surface mount base offers hidden wiring and a machined pivot arm with lockable tilt and rotation.















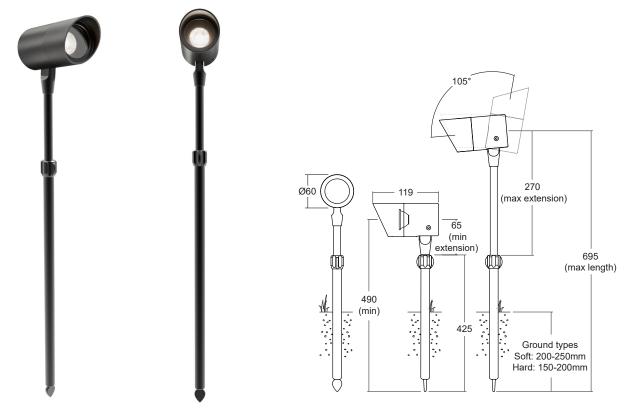




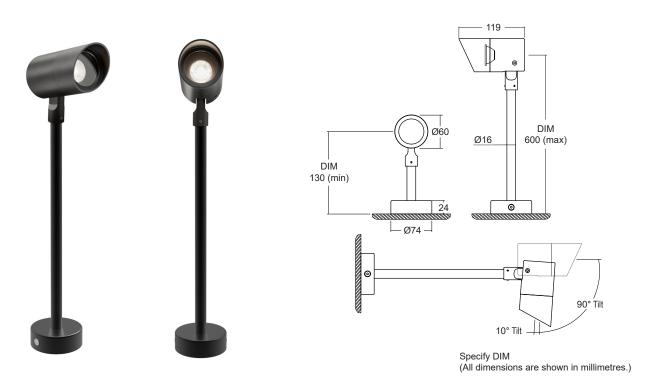
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/GSA Adjustable ground spike with lockable tilt adjustment, for in ground applications. It also has a height adjustment of 490mm to 695mm to the centre of the fitting.



/SMBEX Surface mount base with lockable tilt adjustment has a customisable arm length. It can be specified between 130mm and 600mm to the centre of the fitting. Suitable for vertical and horizontal mounting.



















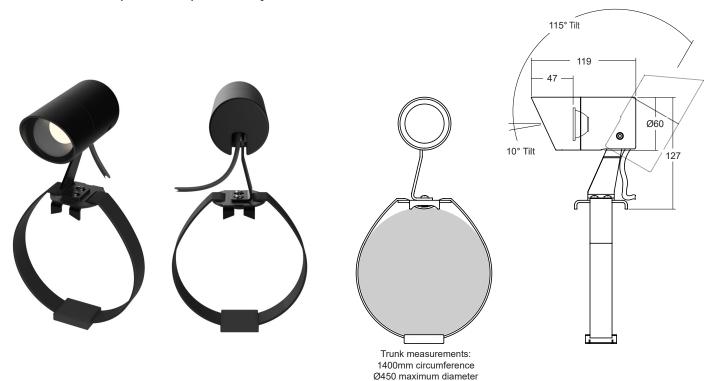
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/TS Tree strap accessory is manufactured from a woven nylon webbing, covered with a recycled rubber coating which allows it to grip the trunk when tightened. It allows for minor rotational adjustment. A tilt adjustment of 10deg can be achieved towards the tree and is lockable via the socket head screw on the side.



















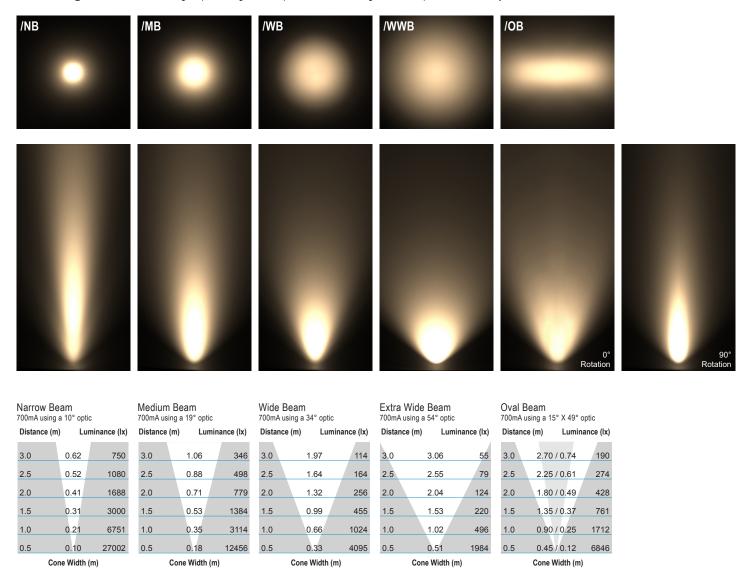


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Cone Diagrams

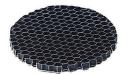
Cone diagrams below are based on a 3000K E1 LED engine run at maximum output 700mA, 10W. Images below, represent beam output when the fitting is pointed directly at the lit surface @ 2m, with the second image representing beam output when wall washing a 3m wall, spaced 125mm away from the lit surface.



Photometric files (LDT) are included in the design pack which can be downloaded from the LD10238 E1 product page on the website.

Accessory

/HL Honeycombe louvre for reduced glare. Please note this is not suitable for use with the 15° x 49° deg oval beam or RGBW optic due to the quality of the beam.



















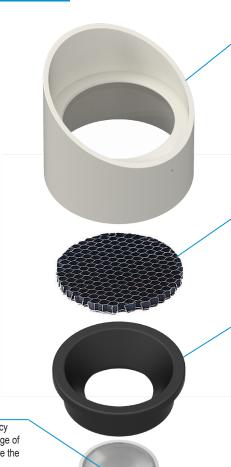




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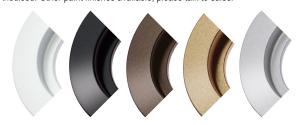
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Product Features & Options



BEZEL / COWL

Paint finish white (RAL 9016) / Black / Antique bronze / Satin Antique Brass / Silver Anodised. Other paint finishes available, please talk to sales.



HONEYCOMB LOUVRE

Optional accessory to further reduce glare coming for the aperture of the fitting.

OPTIC HOLDER

Matt black anodised for reduced glare.

OPTIC

Revised high efficiency optics with a new range of beam angles to create the ideal lit effect.

LED

- E1 LED engine.
- E1 LED engine, with the optional 2nd channel.
- TW Tunable White LED engine.
- RGBW LED engine with colour mix lens.
- CLR Colour LED engine.



BODY

Machined and anodised body. 6000 series aluminium chosen for its thermal characteristics and resistance to corrosion. Paint finish applied on top.

FIXING OPTIONS























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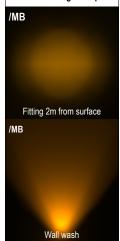
LED Options and Technology

New LED Options

LD10238 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 38deg optic for superb colour mixing - White LED is 4000K - All copper LED board - 4 LED circuits required
Cables	0 0	CH 1 CH 2	0 0	CH 1 CH 2	CH 1 CH 3
					CH 2 CH 4
Lumen output	See front page	See front page		See table below	

2nd Channel Light Output



Tunable white lumen output data				
Colour temperature	Warm White 2700K or 3000K	Cool White 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.





Fixing method

LD10238-E1-350



LD10238 with new E1 LED Light Engine

















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Order Codes and Options

White LED Options - E1 Light Engine





	Coloui	angle		, & access
LD10238-E1 - 350				
- 500	<u> </u>	<u> </u>		
- 700				
Example: I D10238-F	=1-700 / I W30	/ NB / Black /	SMB / HI	

Product codes with output options

7W LED at 500mA	LD10238-E1-500
10W LED at 700mA	LD10238-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) LD10238-E1-2C	H /LW**+L*

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

Beam / lens angle options

5W LED at 350mA

Board Florid angle options	
10° narrow spot	/NB
19° medium	/MB
34° wide	∕WB
54° extra wide	/WWB
15° x 49° oval	/OB

Paint finish options

Paint finish silver / black / white (RAL 9016) / antique bronze / satin antique brass / satin brass / RAL finish

Fixing methods and accessorie

I ixing methods and accessories	
Surface arm mounting	/SAM
Surface mount base	/SMB
Adjustable ground spike	/GSA
Surface mount base with customisable extended arm (specify DIM)	/SMBEX (DIM)
Ground spike	/GS
Tree strap	/TS
Honeycomb louvre (not suitable for oval beam or RGBW)	/HL

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 LD10238-E1-350 in series use a TXDEL350D (0-10V dimmable)

To run 1-4 LD10238-E1-500 in series use a TXDEL500D (0-10V dimmable)

To run 1-4 LD10238-E1-700 in series use a TXDEL700D (0-10V dimmable)

Colour LED Options - CLR Light Engine



Example: LD10238-CLR-500 / LR / MB / Black / SMB	
LED colour options (max 500mA)	Suffix
Red	/LR
Green	/LG
Blue	/LB
Amber	/LA
Driver requirements identical to E1 engine, beam angles identical to TW engine	

Tunable White Options - TW Light Engine



Product code	LED colour	Lens angle	Finish	Fixing method & accessory
LD10238-TW - 350 - 500				
Example: LD10238-	TW-500 / LW27	+ LW40 / MB	/ Black / SMI	В
Product codes with	output options			
5W LED at 350mA - 2 ch	annels of 2 x 1.2W			LD10238-TW-350
7W LED at 350mA - 2 ch	annels of 2 x 1.7W			LD10238-TW-500
LED colour options				Suffix
Tunable White 2700K &	4000K (standard o	otion)		/LW27 + LW40
Tunable White 2700K &	5000K			/LW27 + LW50
Custom				/LW** + LW**
Fitting comprised of 2x L Other white colour option				
Beam / lens angle o	otions			
Narrow spot not available	e due to poor colou	r mixing		
24° medium				/MB
38° wide				/WB
54° extra wide				/WWB
20° x 46° oval				/OB
Finish and fixing op	tions			
Same as White LED opti	ons using the E1 L	ight Engine		
Use with 350mA & 5	00mA constant	current LED d	rivers	
We have a wide range of			K, DALI and Ma	ins dimmable.
Please see the download			101/	
To run 1-7 LD10238-TW- To run 1-7 LD10238-TW-				

Colour Change RGBW Options - RGBW Light Engine



Product code	Finish	Fixing method & accessory
LD10238-RGBW - 350 - 500		
Example: LD10238-RGB	W-500 / Black / SMB	
Product codes with output	ut options	
5W LED at 350mA (4x 1.2W LE	EDs)	LD10238-RGBW-350
7W LED at 500mA (4x 1.7W LEDs)		LD10238-RGBW-500
RGBW features a 4000K white	LED for creating hues	
Beam / lens angle		
38° colour mix lens		
Finish and fixing options		
Same as White LED options us	sing the E1 Light Engine	

Use with 350mA & 500mA constant current LED drivers

We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section on our website:

To run 2-13 LD10238-RGBW-350 in series use a TXDEL4A350DMX or TXDEL4A350DALI To run 2-13 LD10238-RGBW-500 in series use a TXDEL4A500DMX or TXDEL4A500DALI

