High Power Interior/Exterior Tilted LED Uplighter





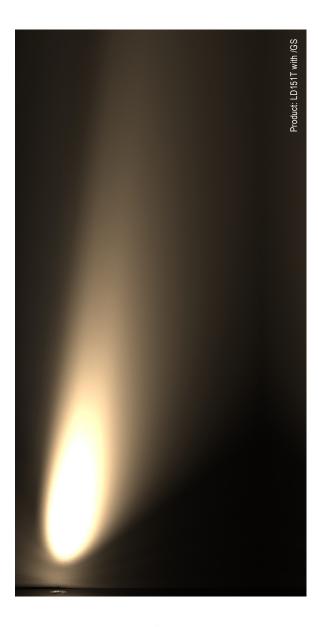








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The LD151T has been designed with the LED and optics on a 6° tilt. This allows the light to be focused onto the lit surface, and enables the uplighters to be set further away from the wall if required. It has been designed specifically to produce low glare illumination to exterior walls and columns. Very powerful for its size and depth, the LD151T features the E1 LED engine, featuring high efficient optics, along with a range of different light engines. It can be used for a wide range of project styles with a minimal aesthetic and no visible fixings. This is a very tough, high quality fitting, machined from high grade materials ensuring excellent thermal and light output performance.

Key Features

- 6° tilt focuses the light onto the lit surface
- Tilt enables uplight to be placed further away from the lit surface whilst still achieving the desired effect, while any glare from the fitting is angled away from your eyes.
- LED/Lens assembly recessed and tilted within a black anodised body for reduced glare
- E1 engine, featuring the CREE XHP35 LED with 2-step binning, Along with an optional 2nd channel, for night lighting or marine navigation applications is also available
- High output 700mA option when specified with the /484N concrete can, delivering up to
- Narrow 10° spot is for lighting columns and arches, or a 15°x 49° spreader lens, ideal for wall washing
- Half-moon style glare shield option, developed to minimise the view of the intense light source without affecting the wash of light on the wall/column
- Single optic produces a very consistent beam with no multiple shadows
- No visible fixings
- Range of bezel finish options
- Built-in reverse polarity protection
- Available with Switch, 0-10V, DMX, Dali or Mains dimmable drivers

Specification

LED type 1 x E1 LED Engine with 2-step binning (LED data 2700K*** / 3000K / 4000K 5000K Current 350mA 500mA 700mA* 350mA 500mA LED power (Max) 5W 7W 10W 5W 7W CRI (Min) 80 80 80 80 Forward voltage (V) ₁₀₀ 14V 14V 14V 14V 14V Delivered lumens (L ₁₀₀)**** 339 427 542 366 461 Lumens per circuit watt 67 61 54 73 65 LED lifetime (to 70% 50,000hrs at a max ambient temperature of 35°C	Applications							
	Beam Angles	10°, 19°, 34°, 54°, 15°x 49°						
Current 350mA 500mA 700mA* 350mA 500mA LED power (Max) 5W 7W 10W 5W 7W (6.3W)** (9W)*** (4.4W)*** (6.4W)** CRI (Min) 80 80 80 80 Forward voltage (V) ₁₀₀ 14V 14V 14V 14V Delivered lumens (L ₁₀₀)**** 339 427 542 366 461 Lumens per circuit watt 67 61 54 73 65 LED lifetime (to 70% 50,000hrs at a max ambient temperature of 35°C	LED type	1 x E1 LED Engine with 2-step binning (LED data below)						
LED power (Max) 5W (4.4W)** 7W (6.3W)** 10W (9W)** 5W (4.4W)** 7W (6.4W)** CRI (Min) 80 80 80 80 80 Forward voltage (V) ₁₀₀ 14V 14V 14V 14V 14V Delivered lumens (L ₁₀₀)**** 339 427 542 366 461 Lumens per circuit watt 67 61 54 73 65 LED lifetime (to 70% 50,000hrs at a max ambient temperature of 35°C	Colour temperature	2700K*** / 3000K / 4000K			5000K			
(4.4W)** (6.3W)** (9W)** (4.4W)** (6.4W)** CRI (Min) 80 80 80 80 80 Forward voltage (V) ₁₀₀ 14V 14V 14V 14V 14V 14V Delivered lumens (L ₁₀₀)**** 339 427 542 366 461 Lumens per circuit watt 67 61 54 73 65 LED lifetime (to 70% 50,000hrs at a max ambient temperature of 35°C	Current	350mA	500mA	700mA*	350mA	500mA	700mA*	
CRI (Min) 80 80 80 80 80 Forward voltage (V) ₁₀₀ 14V 14V 14V 14V 14V Delivered lumens (L ₁₀₀)**** 339 427 542 366 461 Lumens per circuit watt 67 61 54 73 65 LED lifetime (to 70% 50,000hrs at a max ambient temperature of 35°C	LED power (Max)	5W	7W	10W	5W	7W	10W	
Forward voltage (V) ₁₀₀ 14V 14V 14V 14V 14V Delivered lumens (L ₁₀₀)**** 339 427 542 366 461 Lumens per circuit watt 67 61 54 73 65 LED lifetime (to 70% 50,000hrs at a max ambient temperature of 35°C		(4.4W)**	(6.3W)**	(9W)**	(4.4W)**	(6.4W)**	(9W)**	
Delivered lumens (L ₁₀₀)**** 339 427 542 366 461 Lumens per circuit watt 67 61 54 73 65 LED lifetime (to 70% 50,000hrs at a max ambient temperature of 35°C	CRI (Min)	80	80	80	80	80	80	
Lumens per circuit watt 67 61 54 73 65 LED lifetime (to 70% 50,000hrs at a max ambient temperature of 35°C	Forward voltage (V) ₁₀₀	14V	14V	14V	14V	14V	14V	
LED lifetime (to 70% 50,000hrs at a max ambient temperature of 35°C	Delivered lumens (L ₁₀₀)****	339	427	542	366	461	585	
	Lumens per circuit watt	67	61	54	73	65	58	
(i. i.g. i.	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 6mm thick low iron glass

Black anodised aluminium body, machine finish 316 stainless Materials

steel bezel (other options available)

Sleeve - Black Acetal

Wiring Comes pre-wired with 250mm lead. Single colour equipped

with 2 core cable & 2 channel with 4 core cable. Can be specified with up to 10m at extra cost.

IP67 IP rating

^{****}lumen output indicated is without the glare shield. Allow 30% less with the /GS glare shield.







^{*}can only be specified with /484N concrete housing

^{**}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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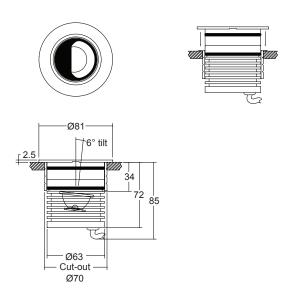


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Fixing Accessories

The fitting is supplied as standard with a fixing sleeve; this is bonded into the mounting surface first. The LD151T is secured into the sleeve by 2 'O' rings on the body. When pushed into the sleeve it creates a watertight seal.

/484S First Fix Sleeve supplied as standard

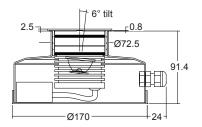


/484N Concrete housing

/ID Optional integral non dimming driver (single colour only at 350mA or 500mA)

/484N can must be used when specifying the 700mA fitting. The aluminium can aids in keeping the LED fitting cool, as it helps with thermal transfer between the heat within the can to the surrounding concrete.

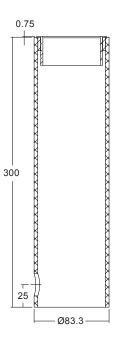




/484GT Ground tube

The in-ground tube has been designed for applications where a recessed uplighter is required in soil or gravel surfaces. The tube can be buried with the necessary wiring, and then the fitting installed after the landscaping work has been completed. It is supplied with the fixing sleeve bonded into the tube, and can be cut down on site.









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6° Tilt

Both the LED and the optic are put at a 6° tilt, allowing for more efficient use of a glare shield, as more of the light output and directed towards the open aperture of the fitting.



Glare Shields



/NGS

No glare shield for maximum lumen output. Deep recessed optic and matt black anodised optic holder aids in glare reduction.

Please refer to our photometric files for lumen data.



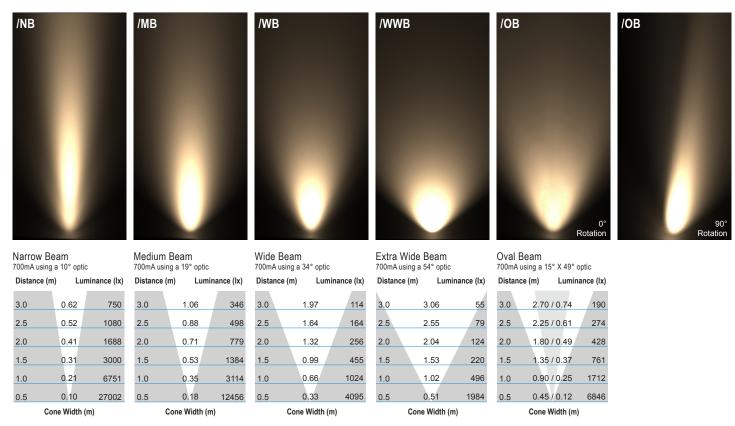
/GS

Half-moon style glare shield design, unique to the LD151T. Designed for a balanced output and glare control.

Please refer to our photometric files for lumen data.

Cone Diagrams

Cone diagrams below are based on a 3000K E1 LED engine run at maximum output 700mA, 10W. Images below represents beam outputs when wall washing a 3m wall, spaced 250mm away from the lit surface.



Photometric files (LDT) are included in the design pack which can be downloaded from the LD151T product page on the website.















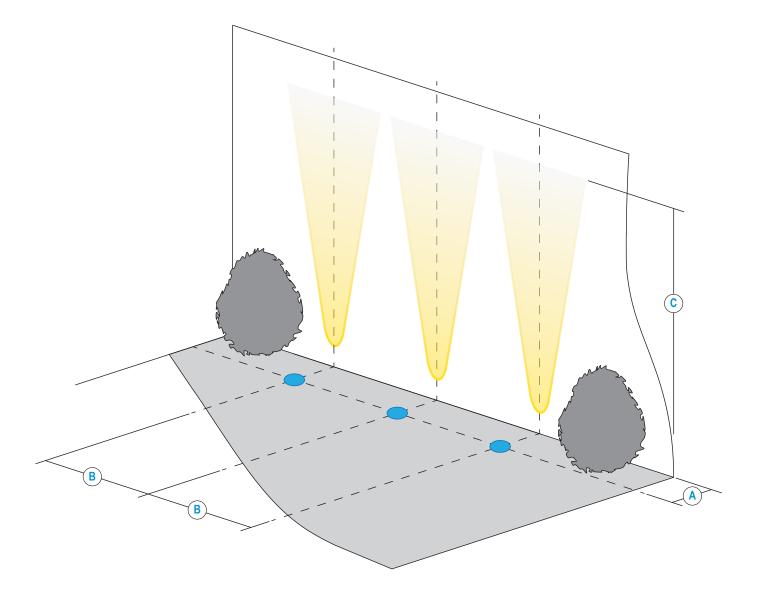


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Installation Guide

Below is a luminaire positioning guide. Every project and lighting scenario will be different; the table below is to be used as a starting point for any wall wash design. Please use our photometric files to further test the desired effect for your application. Files are available on our LD151T product page on our website.



LD151T-E1		/NB	/MB	/WB	/WWB	/OB	
A	Distance from the centre of the fitting to the lit surface	250mm					
B	Spacing for an even wash	250mm*	350mm	400mm	500mm	500mm	
C	500mA Lit distance	7m	4.5m	3.5m	2m	4m	
C	700mA Lit distance	9m	7m	5m	3m	6m	

*Wall washing using narrow beam optics should only be used if the designer requires long distance lighting up the lit surface.





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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.

BODY

OPTIC HOLDER

Matt black anodised for reduced glare.

Machined and anodised body. 6000 series aluminium chosen for its thermal characteristics and resistance to corrosion.



ACCESSORY

Choose between a range of fixings options





















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LED Options and Technology

New LED Options

LD150T is 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 engine is also available with two extra LEDs on a second channel, for night lighting and marine navigation applications.

	E1 Light Engine (White light applications)	E1 Light Engine with 2nd channel
LED Board	THE CONTRACT OF THE CONTRACT O	THE STATE OF THE S
LED type	Cree XHP35	Cree XHP35 + XQE's
Key features	- Available in 2700K, 3000K, 4000K and 5000K - Very small chip size - Tighter narrow beam - 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 not centralised within the optic - Mixing is not recommended - 2 driver circuits required - All copper LED board
Cables	⊕	CH 1 CH 2

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.



Order Codes and Options

Product code LED Beam Finish Glare shield	Accesso- ries
LD151T-E1- 350]/
- 500 ' ' ' ' ' ' - 700	
Example: LD151T-E1-700 / LW30 / NB / Stainless Steel / NGS /	484N
Product codes with output options	
5W LED at 350mA	LD151T-E1-350
7W LED at 500mA	LD151T-E1-500
10W LED at 700mA (Must be specified with /484N)	LD151T-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) LD151T-E1-2CH	/LW**+L
For other single colour options, please discuss with sales team	
Beam / lens angle options	
10° narrow spot	/NE
19° medium	/ME
34° wide	/WE
54° extra wide	/WWE
15° x 49° oval	/OE
Bezel finish options	
Stainless steel 316	
Paint finish white / black / RAL (not suitable for high traffic areas)	
Polished and passivated stainless steel (for marine environments)	
Flamed solid bronze (antique finish)	
Glare shield	
No glare shield	/NGS
Half-moon	/GS
Fixing accessories	
First fix sleeve (supplied as standard)	/4849
Concrete housing (specify when choosing LD151T-E1-700)	/4841
with integral non-dimming driver (single colour 350mA & 500mA single colour of	only) /IE
Ground tube	/484G
Use with 350mA, 500mA & 700mA constant current LED drivers	
We have a wide range of dimmable LED drivers, 0-10V, DMX, DALI and Mains Please see the downloads section on our website: To run 1-4 LD151T-E1-350 in series use a TXDEL350D (0-10V dimmable) To run 1-4 LD151T-E1-500 in series use a TXDEL500D (0-10V dimmable)	dimmable.

To run 1-3 LD151T-E1-700 in series use a TXDEL700D (0-10V dimmable)