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High Power Interior/Exterior LED Uplighter



The new LD151 features the all new E1 LED engine, optional glare shields and a new range of optics. Tunable White and RGBW options are also available. A powerful uplighter for its size and depth, the new LD151 has been designed specifically to produce low glare illumination to walls and columns. 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. Ideal for indoor or outdoor applications.

Key Features

- New E1 engine, featuring the CREE XHP35 LED with 2-step binning
- New optional 2nd channel LEDs for secondary lighting applications
- New 700mA option when specified with /484N concrete can, delivering up to 555 lumens
- New optics, featuring an impressively narrow 10° spot is for lighting columns and arches, or a 15°x 49° spreader lens, which is ideal for wall washing applications
- Single optic produces a very consistent beam with no multiple shadows
- LED and lens recessed in a matt black anodised body for reduced glare
- Choice of glare shields
- No visible fixings
- Range of bezel finish options
- Built-in reverse polarity protection
- LD151 is available with RGBW and Tunable White LED engines
- Available with Switch, 0-10V, DMX, Dali or Mains dimmable drivers



Specification





10°, 19°, 34°, 54°, 15°x 49° 1 x E1 LED Engine with 2-step binning

1 x E1 LED Engine with 2-step	p binning (LED data below)
2700K*** / 3000K / 4000K	5000K

Current	350mA	500mA	700mA*	350mA	500mA	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 (L100)****	347	437	555	374	472	599
Lumens per circuit watt	69	62	55	75	67	59
LED lifetime (to 70%	50,000hrs at a max ambient temperature of 35°C					
lumen maintenance)	(if higher ambient then run at 500mA up to 45°C)					
Glass	6mm thick low iron glass					
Materials	Black anodised aluminium body, machine finish 316 stainless					
	steel bezel (other options available)					
	Sleeve - Black Acetal					
Wiring	Comes pre-wired with 250mm 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.

*can only be specified with /484N concrete housing **indicates the nominal power for the LED run at that particular current and includes losses

IP67

associated with using an 85% efficient driver

***2700K lumen output is 8% lower than the 3000K figure listed

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



Beam Angles

Colour temperature

LED type

IP rating

(700

LD151 with new E1 LED Light Engine



(IP67

F

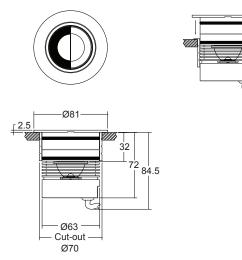
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High Power Interior/Exterior LED Uplighter

Fixing Accessories

The fitting is supplied as standard with a fixing sleeve; this is bonded into the mounting surface first. The LD151 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)

Concrete housing 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

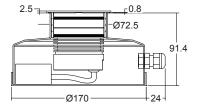
The in-ground tube has been designed for applications where a recessed uplighter is required in soil or gravel surfaces. The tube can be buried with the necessary wiring, and then the fitting installed after the landscaping work has been completed. It is supplied with the fixing sleeve bonded into the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

(350

(500













High Power Interior/Exterior LED Uplighter



Glare Shields

LD151 now comes with a choice of glare control options.







/GS Standard glare shield introduced in 2010, which provides an excellent balance between glare control and light output. This accessory works well in most applications.



/GSHM

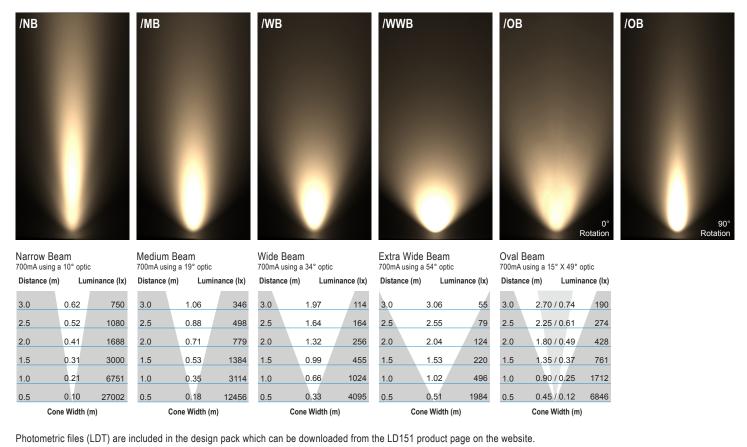
Half-moon glare shield for applications that require very low glare. Lumen output typically reduced by 60%.

Please refer to our photometric files for lumen data. These are available to download from the website.

Cone Diagrams

/NGS

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 125mm away from the lit surface.



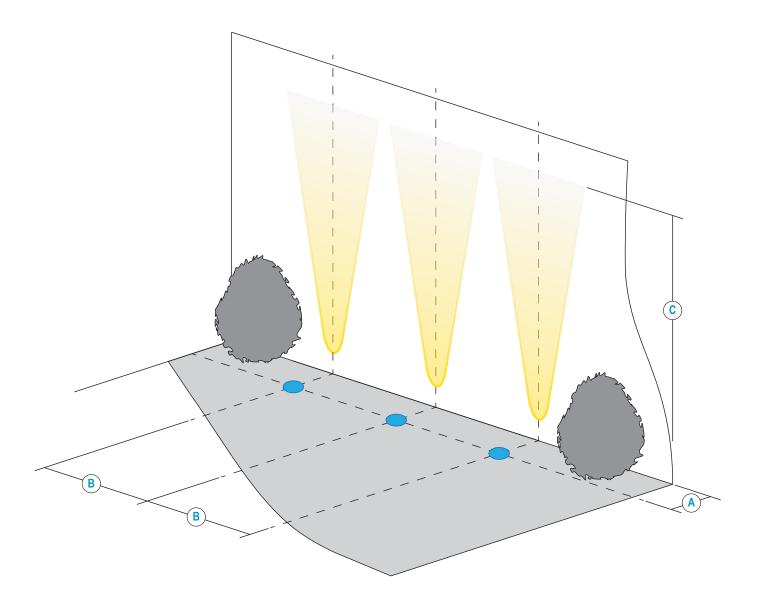


High Power Interior/Exterior LED Uplighter

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Installation Guide

Below is a luminaire positioning guide for white LEDs. 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 LD151 product page on our website.



LD15	1-E1	/NB	/MB	/WB	/WWB	/OB
	Distance from the centre of the fitting to the lit surface	125mm				
B	Spacing for an even wash	250mm*	350mm	400mm	500mm	500mm
C	500mA Lit distance	6m	4.5m	2m	2m	4m
C	700mA Lit distance	9m	5.5m	4m	3m	5m

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



High Power Interior/Exterior LED Uplighter



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Product Features

BEZEL

High quality machined bezel available in 316 stainless steel, polished, solid & flamed bronze, paint finish white (RAL 9016) / black / RAL. Other paint finishes available, please talk to sales.



GLASS

6mm thick low iron glass, suitable for walkover applications.

GLARE SHIELD

Optional glare shield to reduce glare. With choices between our standard glare shield or a half moon glare shield design.



OPTIC HOLDER Matt black anodised for reduced glare.

BODY

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

ACCESSORY Choose between a range of fixings options





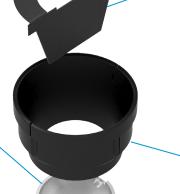


OPTIC

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.





High Power Interior/Exterior LED Uplighter

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LED Options and Technology

New LED Options

LD151 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 Whit	te 💦	RGBW		
LED Board					•		•	Jarger C	and o	
LED type	Cree XHP35	Cree XHP35 + XQE's	Cree >	(QE'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 lig or marine navigation app cations 2nd channel comprises XQE LEDs mounted new the XHP35 Beam shape from the b is different from the mair as they are mounted to t sides of the optic 2 driver circuits require All copper LED board 	hting under oli All cc - Red, s of 2 colour t to - Singl XQE's n LED the	our XQE LEDs a single optic opper LED boar Blue, Green ar LED options e LED circuit	d - nd Amber - r -	4 XQE LEDs mounted a single optic 2 LEDs per colour Excellent dynamic whii mixing from a range of o All copper LED board 2 driver circuits require	te optics	- RGBW LEDs a single 26deg colour mixing - White LED is - All copper LE - 4 LED circuits	optic for s 4000K D board	superb
Cables		CH 1	CH 2		Θ	CH 1	СН 2		CH 1	CH 3 CH 3 CH 4
Lumen output	See front page	See front page			Ş	See table below				
2nd Chann /MB	el Light Output						Thern High qu	try Leading nal Manager	nent copper F	
		unable white lumen outp Colour temperature	ut data Warm White 2700K or 300	Cool V 00K 4000K	/hite or 5000K		providing managm	ect contact cooling industry lea ent of the LED. Gua ninimal colour shift.	ding the aranteeing	rmal
Fitting 2	m from curfaco	Current	500mA	500mA	۱]		\frown		
/MB	L A	ED power (Max) Il channels in use	7W (6.3W) 3.5W per chan	nel				WING BOTHE		
		CRI (Min)	85	4001		-				1
		Delivered lumens (L ₁₀₀)	148lm 42	188lm 54		-			\sim	
			TL							



Wall wash

High Power Interior/Exterior LED Uplighter

Order Codes and Options

White LED Options - E1 Light Engine	8) (68
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Product code LED Beam Glare Finish colour angle shield	n Fixing
LD151-E1 - 350 - 500	
- 700	
Example: LD151-E1-700 / LW30 / NB / NGS / Stainless Steel /	484N
Product codes with output options	
5W LED at 350mA	LD151-E1-350
7W LED at 500mA	LD151-E1-500
10W LED at 700mA (Must be specified with /484N)	LD151-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) LD151-E1-2CH	/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
Glare shield	
No glare shield	/NGS
Standard glare shield	/GS
Half-moon glare shield	/GSHM
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)	
Fixing accessories	
First fix sleeve (supplied as standard)	/484S
Concrete housing (specify when choosing LD151-E1-700)	/484N
with integral non-dimming driver (350mA & 500mA outputs only)	/ID
Ground tube	/484GT
Use with 350mA, 500mA & 700mA constant current LED driver	S
We have a wide range of dimmable LED drivers, 0-10V, DMX, DALI and Main Please see the downloads section on our website:	ns dimmable.

ads section on our w To run 1-4 LD151-E1-350 in series use a TXDEL350D (0-10V dimmable) To run 1-4 LD151-E1-500 in series use a TXDEL500D (0-10V dimmable) To run 1-3 LD151-E1-700 in series use a TXDEL700D (0-10V dimmable)

Colour LED Options - CLR Light Engine

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	

350 **F**/ (500 mA (700 mA) (IP67)

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Tunable White Options - TW Light Engine

Tunable winte Options - Tw Light Lighte (<u> </u>
Product code LED Beam Glare colour angle shield	Finish Fixing
LD151-TW - 350	
Example: LD151-TW-500 / LW27 + LW40 / NB / NG	S / Stainless Steel / 484N
Product codes with output options	
5W LED at 350mA - 2 channels of 2 x 1.2W	LD151-TW-350
7W LED at 500mA - 2 channels of 2 x 1.7W	LD151-TW-500
LED colour options	Suffix
Tunable White 2700K & 4000K (standard option)	/LW27 + LW40
Tunable White 2700K & 5000K Custom	/LW27 + LW50 /LW** + LW**
Fitting comprised of 2x LEDs in one colour temperature & 2x LE Other white colour options available on request, please discuss	
Beam / lens angle options	
Narrow spot not available due to poor colour mixing	
24° medium	/MB
38° wide	/WB
54° extra wide	/WWB
20° x 46° oval	/OB
Beam, Bezel and Glare shield options	
Same as White LED options using the E1 Light Engine	
Finish and fixing options Same as White LED options using the E1 Light Engine	
We have a wide range of dimmable LED drivers, 0-10V, DMX, D Please see the downloads section on our website: To run 1-7 LD151-TW-350 in series use 2x TXDEL350D (0-10V To run 1-7 LD151-TW-500 in series use 2x TXDEL500D (0-10V Colour Change RGBW Options - RGBW Lig	dimmable) dimmable)
Product code Glare Finis shield	sh Accessories
LD151-RGBW - 350 - 500	
Example: LD151-RGBW-500 / Stainless Steel / NGS	6 / 484N
Product codes with output options	
5W LED at 350mA (4x 1.2W LEDs)	LD151-RGBW-350
7W LED at 500mA (4x 1.7W LEDs)	LD151-RGBW-500
RGBW features a 4000K white LED for creating hues	
Beam / lens angle options	
38° colour mix lens	
Bezel and Glare shield options Same as White LED options using the E1 Light Engine	
Finish and fixing options	
Same as White LED options using the E1 Light Engine	
Use with 350mA & 500mA constant current LED driv	
We have a range of dimmable LED drivers DMX and DALI com	patible. Please see the

downloads section on our website: To run 2-13 LD151-RGBW-350 in series use a TXDEL4A350DMX or TXDEL4A350DALI

To run 2-13 LD151-RGBW-500 in series use a TXDEL4A500DMX or TXDEL4A500DALI

