700

350

500

LD151 with new E1 LED Light Engine

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700mA*

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 or /484N-2 concrete cans, 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





Beam Angles	10°, 19°, 34°, 54°, 15°x 49°						
LED type	1 x E1 LI	ED Engine	with 2-ste	p binning (LED data	below)	
Colour temperature	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%	50,000hr	s at a max	ambient ter	nperature	of 35°C		
lumen maintenance)	(if higher	ambient th	en run at 5	00mA up to	to 45°C)		
Glass	6mm thic	k low iron	glass				
Materials	Black and	odised alun	ninium body	, machine	finish 316	stainless	
	steel bez	el (other op	otions availa	able)			
	Sleeve -	Black Aceta	al				
Wiring	Comes pre-wired with 250mm lead. Single colour equipped			uipped			
	with 2 co	re cable, 2	Channel or	TW engine	e with 4 cor	re cable	
	& RGBW	with 8 core	e cable. Ca	n be specif	ied with up	to 10m	
	at extra c	ost.					

*can only be specified with /484N or /484N-2 concrete housings **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

IP67

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



IP rating

700

LD151 with new E1 LED Light Engine



(IP67

F

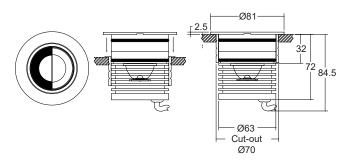
 $\langle \square \rangle$

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.

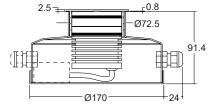
Concrete housings can be specified with 1x PG9 Gland (484N) or 2x PG9 glands (484N-2).

/484N Concrete housing with 1x PG9 IP67 gland



/484N-2 Concrete housing with 2x PG9 IP67 gland



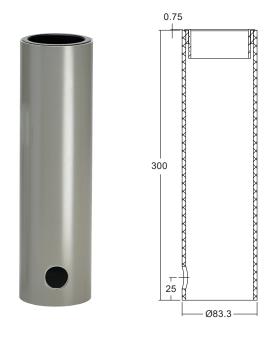


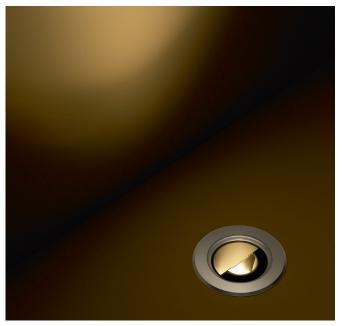
/484GT Ground tube

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

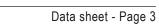








High Power Interior/Exterior LED Uplighter



Glare Shields

LD151 now comes with a choice of glare control options.





No glare shield. Deep recessed optic and matt black anodised optic holder aids in glare reduction.

/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.



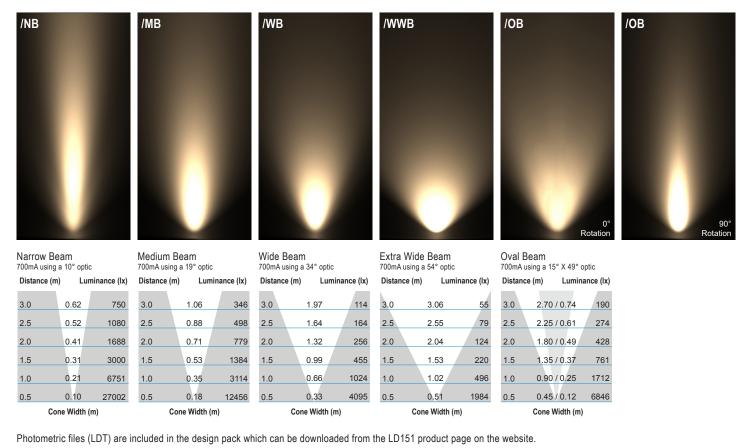
/GSHM

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

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.



LIAQA ASSURED COMPANY

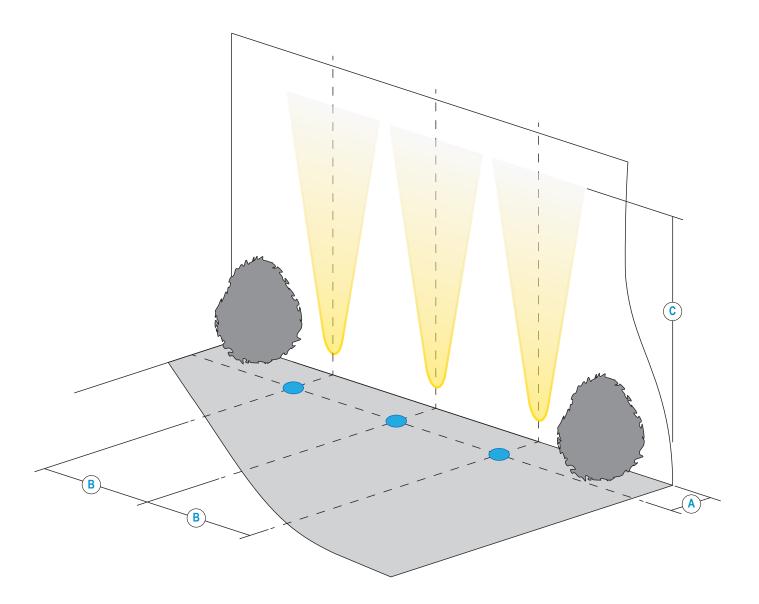


High Power Interior/Exterior LED Uplighter

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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	/ОВ
	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
С	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 - C	olour 🕃	TW - Tunable White	RGBW	
LED Board				***		Jan Contraction of the second se	
LED type	Cree XHP35	Cree XHP35 + XQE's	Cree XQE	E'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 	0K 2nd channel for night lighting or marine navigation appli- cations under a single optic a single optic a single optic a single optic - All copper LED board - All copper LED board - Excellent dynamic white - Whit - Single LED smounted next to - Single LED circuit - All copper LED board - All copper LED board - Single LED circuit - Single LED circuit - All copper LED board - All copper LED board - Single LED circuit - Single LED circuit - All copper LED board - 4 LE - Single LED circuit - Single LED circuit - All copper LED board - 4 LE - board for - Beam shape from the main LED - Single LED circuit - 4 LE		r - 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	сн 2		CH 1 CH	2 CH 1 CH 3 CH 1 CH 3 CH 2 CH 4	
Lumen output	See front page	See front page			See table below		
2nd Chann /MB	iel Light Output				The High	ustry Leading LED ermal Management quality, embedded copper PCB,	
Fitting 2m from surface		unable white lumen outpu Colour temperature	ut data Warm White 2700K or 3000K	Cool White 4000K or 5000K	provi mana	direct contact cooling for the LEDs ding industry leading thermal agment of the LED. Guaranteeing long nd minimal colour shift.	
		Current ED power (Max) All channels in use	500mA 7W (6.3W) 3.5W per channel	500mA			
		CRI (Min) 85 Delivered lumens (L ₁₀₀) 148Im					
		umens per circuit watt	42	54			



Wall wash

High Power Interior/Exterior LED Uplighter

Order Codes and Options

White LED Options - E1 Light Engine (88) 📀

Product code	LED colour	Beam angle	Glare shield	Finish	Fixing
LD151-E1 - 350 - 500 - 700 Example: LD151-	E1-700 / LW	/30 / NB / NG	S / Stainles	s Steel / 484	IN
Product codes wit	h output op	tions			
5W LED at 350mA				l	_D151-E1-350
7W LED at 500mA				I	_D151-E1-500

/W LED at 500mA	LD151-E1-500
10W LED at 700mA (Must be specified with /484N or /484N-2)	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*
*Other LED colour temperatures are available. Please speak to a member of our 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

0	
First fix sleeve (supplied as standard)	/484S
Concrete housing (specify when choosing LD151-E1-700) with 1X PG9 gland	/484N
Concrete housing (specify when choosing LD151-E1-700) with 2x PG9 glands	/484N-2
with integral non-dimming driver (350mA & 500mA outputs only)	/ID
Ground tube	/484GT
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 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

Example: LD151-CLR-500 / LR / MB / NGS / Stainless Steel / 484N

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	

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Tunable White Options - TW Light Engine

Product code	LED Bea			sh Fixing
LD151-TW - 350 - 500				
Example: LD151-TV	V-500 / LW27 + I	_W40 / NB / N	GS / Stainle	ess Steel / 484N
Product codes with o 5W LED at 350mA - 2 ch 7W LED at 500mA - 2 ch	annels of 2 x 1.2W			LD151-TW-350 LD151-TW-500
LED colour options				Suffix
Tunable White 2700K & 4 Tunable White 2700K & 5 Custom		tion)		/LW27 + LW40 /LW27 + LW50 /LW** + LW**
Fitting comprised of 2x LI Other white colour option				
Beam / lens angle op				
Narrow spot not available 24° medium 38° wide 54° extra wide 20° x 46° oval	due to poor colour	mixing		/MB /WB /WWB /OB
Beam, Bezel and Gla Same as White LED option	•			
Finish and fixing opt	tions			
Same as White LED option	ons using the E1 Li	ght Engine		
We have a wide range of Please see the download To run 1-7 LD151-TW-35 To run 1-7 LD151-TW-50 Colour Change R	ls section on our we 0 in series use 2x T 0 in series use 2x T	ebsite: XDEL350D (0-10 XDEL500D (0-10	0V dimmable) 0V dimmable)	
-			nish	Accessories
Product code LD151-RGBW - 350 - 500	Glare shield			
Example: LD151-RC	BW-500 / Stain	less Steel / N	GS / 484N	
Product codes with				
5W LED at 350mA (4x 1.				LD151-RGBW-350
7W LED at 500mA (4x 1. RGBW features a 4000K		ting hues		LD151-RGBW-500
Beam / lens angle or				
38° colour mix lens				
Bezel and Glare shie Same as White LED option	•	ght Engine		
Finish and fixing opt Same as White LED option		ght Engine		
Use with 350mA & 50	Ŭ,		rivers	
We have a range of dimn downloads section on ou To run 2-13 LD151-RGB	r 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

