High Power Interior Tilted LED Uplighter





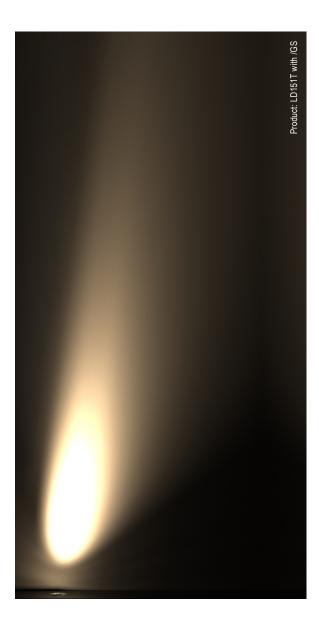














The LD150T has been designed with the LED and optics on a 6° tilt. This allows the light to be focused onto the lit surface, and enables the uplighters to be set further away from the wall if required. It has been designed specifically to produce low glare illumination to exterior walls and columns. Very powerful for its size and depth, the LD150T 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 /482N or /482N-2 concrete can, delivering up to 542 lumens
- 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**

	Applications						
	Beam Angles	10°, 19°,	, 34°, 54°,	15°x 49°			
	LED type	1 x E1 LE	ED Engine	with 2-step	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) <sub>100</sub>	14V	14V	14V	14V	14V	14V
	Delivered lumens (L <sub>100</sub> )****	339	427	542	366	461	585
	Lumens per circuit watt	67	61	54	73	65	58
LED lifetime (to 700)				£ 3E°C			

50,000hrs at a max ambient temperature of 35°C LED lifetime (to 70% lumen maintenance) (if higher ambient then run at 500mA up to 45°C)

Glass 6mm thick low iron glass

Black anodised aluminium body, Machine finish 316 Materials

stainless steel bezel (other options available)

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

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

IP rating IP54

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



<sup>\*</sup>can only be specified with /482N or /482N-2 concrete housing

<sup>\*\*</sup>indicates the nominal power for the LED run at that particular current and includes losses associated with using an 85% efficient driver

<sup>\*\*\*2700</sup>K lumen output is 8% lower than the 3000K figure listed









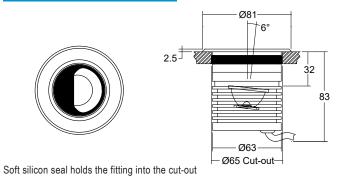


Data sheet - Page 2



High Power Interior Tilted LED Uplighter

## **Dimensions and Fixing Options**



/482S First fix sleeve Ø81 ۱<sub>6</sub> 2.5

First fix sleeve is polypropylene. Fins on the side lock it into a range of mounting surfaces.

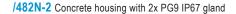
### /482N or /482N-2 Concrete housing

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

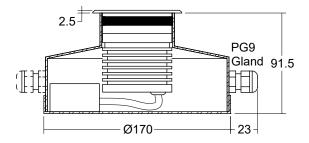
 $/482\mbox{N}$  can must be used when specifying the 700mA fitting. The aluminium can aids in keeping the LED fitting cool, as it helps with thermal transfer between the heat within the can to the surrounding concrete.

/482N Concrete housing with 1x PG9 IP67 gland









Concrete housing can be specified with an integral mains in non dimming LED driver.





High Power Interior Tilted LED Uplighter











Data sheet - Page 3

### 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 LD150T. Designed for a balanced output and glare control.

Please refer to our photometric files for lumen data.

### **Cone Diagrams**

1.0

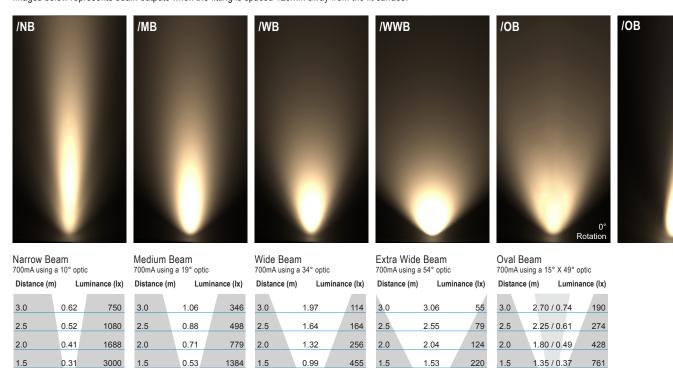
0.5

0.21

0.10

Cone Width (m)

Cone diagrams below are based on a 3000K LED run at maximum output 700mA, 10W. Images below represents beam outputs when the fitting is spaced 125mm away from the lit surface.



Photometric files (LDT) are included in the design pack which can be downloaded from the LD150T product page on the website.

1.0

0.5

0.66

0.33

Cone Width (m)

1024

4095

1.0

0.5

1.02

0.51

Cone Width (m)

496

1984

1.0

0.5

0.90 / 0.25

0.45 / 0.12

Cone Width (m)

1712

6846



6751

27002

1.0

0.5

0.35

0.18

Cone Width (m)

3114

12456













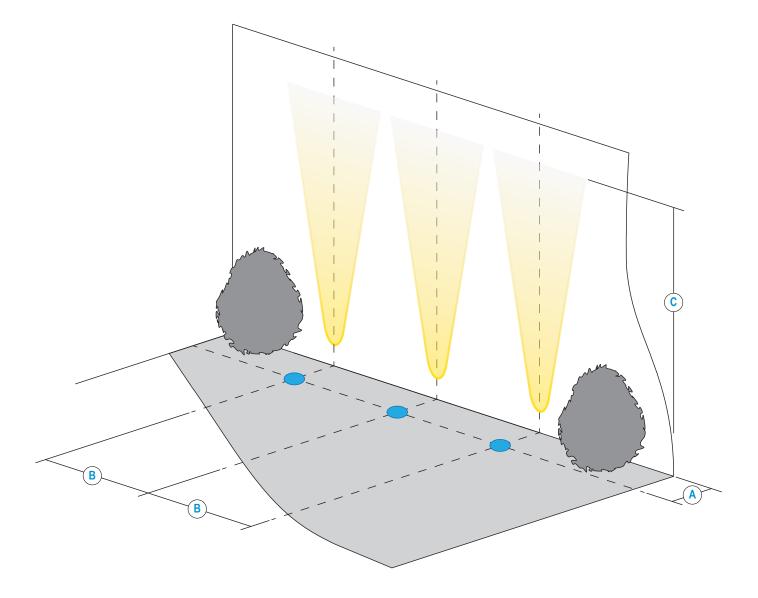


High Power Interior Tilted LED Uplighter

Data sheet - Page 4

### 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 LD150T product page on our website.



LD150T-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.





High Power Interior Tilted LED Uplighter





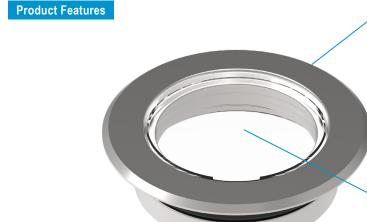






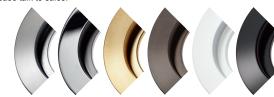


Data sheet - Page 5



### 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 further reduce 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.



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 our fixing sleeve, concrete can or no fixing at all.









# LD150T with E1 LED Light Engine High Power Interior Tilted LED Uplighter











Data sheet - Page 6

### **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	C. S. C.
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	<b>⊕</b>	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 colour angle shield	Accesso- ries
LD150T-E1- 350 - 500 - 700	
Example: LD150T-E1-700 / LW30 / NB / Stainless Steel / NGS /	482N
Product codes with output options	
5W LED at 350mA	LD150T-E1-35
7W LED at 500mA	LD150T-E1-50
10W LED at 700mA (Must be specified with /482N)	LD150T-E1-70
LED colour options	Suffi
Extra Warm White (2700K)	/LW2
Warm White (3000K)	/LW3
White (4000K) - on request	/LW4
Cool White (5000K)	/LW5
With 2nd channel (red for navigation or amber night lighting) LD150T-E1-2CH	/LW**+I
*Other LED colour temperatures are available. Please speak to a member of our sales team.	
Beam / lens angle options	
10° narrow spot	/N
19° medium	/M
34° wide	/W
54° extra wide	/WW
15° x 49° oval	/0
Bezel finish options	
Stainless steel 316	
Polished and passivated stainless steel (for marine environments)	
Flamed solid bronze (antique finish)	
Paint finish white / black / RAL (not suitable for high traffic areas)	
*See our finishes guide for other options	
Glare shield	
No glare shield	/NG
Half-moon glare shield	/G
Fixing accessories	
First fix sleeve	/482
Concrete housing (specify when choosing LD150T-E1-700) - 1x PG9 gland	/482
Concrete housing (specify when choosing LD150T-E1-700) - 2x PG9 gland	
with integral non-dimming driver (single colour 350mA & 500mA outputs only)	
Use with 350mA, 500mA & 700mA constant current LED drivers	3
We have a wide range of dimmable LED drivers, 0-10V, DMX, DALI and Mair	

Please see the downloads section on our website:

To run 1-4 LD150T-E1-350 in series use a TXDEL350D (0-10V dimmable) To run 1-4 LD150T-E1-500 in series use a TXDEL500D (0-10V dimmable) To run 1-3 LD150T-E1-700 in series use a TXDEL700D (0-10V dimmable)

