

**LD150T** with E1 LED Light Engine

High Power Interior Tilted LED Uplighter



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Product: LD150T with /GS



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 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 LED Engine with 2-step 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 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

## Materials

Black anodised aluminium body, Machine finish 316 stainless steel bezel (other options available)

## Wiring

Comes pre-wired with 250mm lead. Single colour equipped with 2 core cable &amp; 2 channel with 4 core cable. Can be specified with up to 10m at extra cost.

## IP rating

IP54

\*can only be specified with /482N 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

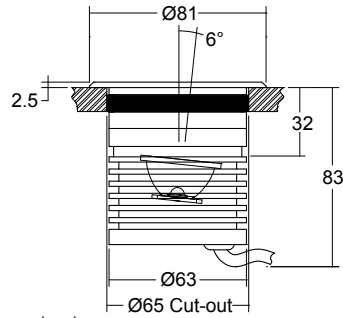
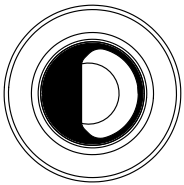
\*\*\*\*lumen output indicated is without the glare shield. Allow 30% less with the /GS glare shield.

**LD150T** with E1 LED Light Engine

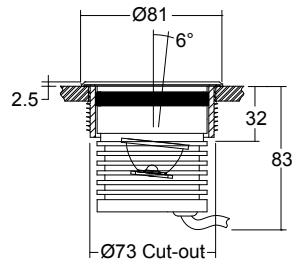
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**Dimensions and Fixing Options**

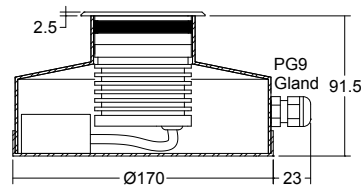
Soft silicon seal holds the fitting into the cut-out

**/482S** First fix sleeve

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

**/482N** Concrete housing**/ID** Optional integral non dimming driver (single colour only at 350mA or 500mA)

/482N 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.



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

# LD150T with E1 LED Light Engine

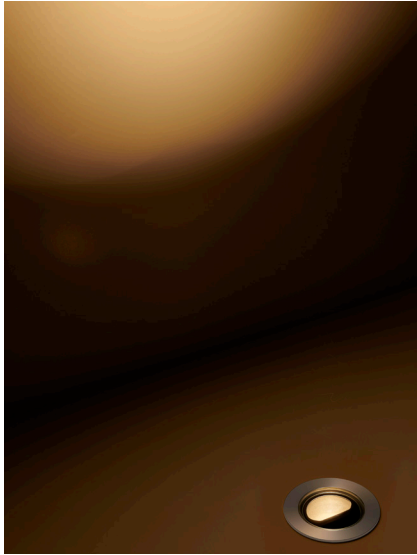
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## 6° Tilt

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.

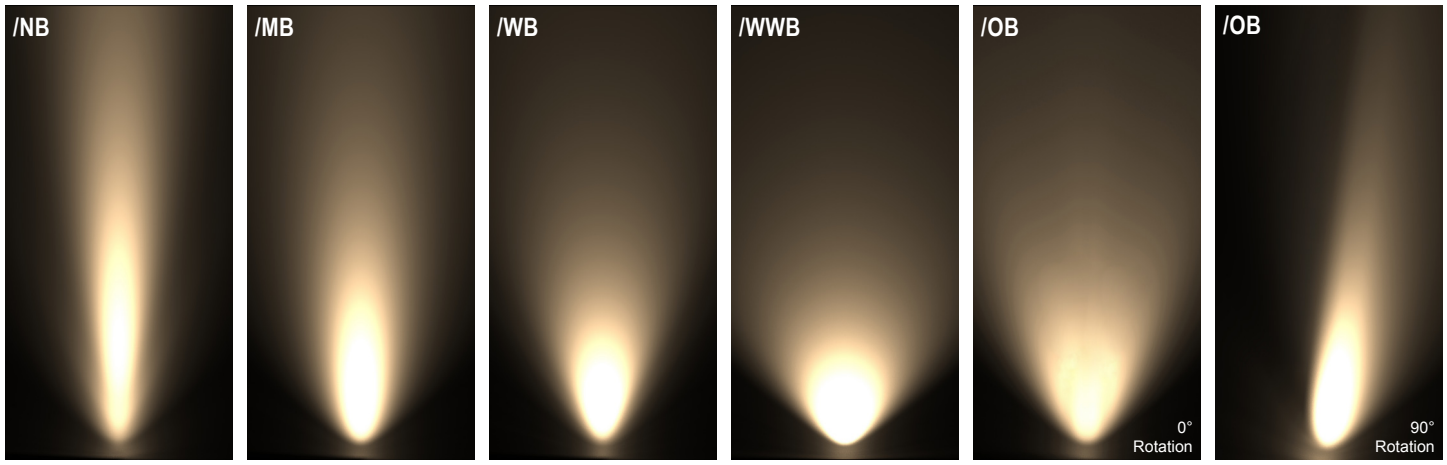
Please refer to our photometric files for lumen data.

**/IGS**  
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

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.



**Narrow Beam**  
700mA using a 10° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	0.62	750
2.5	0.52	1080
2.0	0.41	1688
1.5	0.31	3000
1.0	0.21	6751
0.5	0.10	27002

**Medium Beam**  
700mA using a 19° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	1.06	346
2.5	0.88	498
2.0	0.71	779
1.5	0.53	1384
1.0	0.35	3114
0.5	0.18	12456

**Wide Beam**  
700mA using a 34° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	1.97	114
2.5	1.64	164
2.0	1.32	256
1.5	0.99	455
1.0	0.66	1024
0.5	0.33	4095

**Extra Wide Beam**  
700mA using a 54° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	3.06	55
2.5	2.55	79
2.0	2.04	124
1.5	1.53	220
1.0	1.02	496
0.5	0.51	1984

**Oval Beam**  
700mA using a 15° X 49° optic

Distance (m)	Cone Width (m)	Luminance (lx)
3.0	2.70 / 0.74	190
2.5	2.25 / 0.61	274
2.0	1.80 / 0.49	428
1.5	1.35 / 0.37	761
1.0	0.90 / 0.25	1712
0.5	0.45 / 0.12	6846

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

# LD150T with E1 LED Light Engine

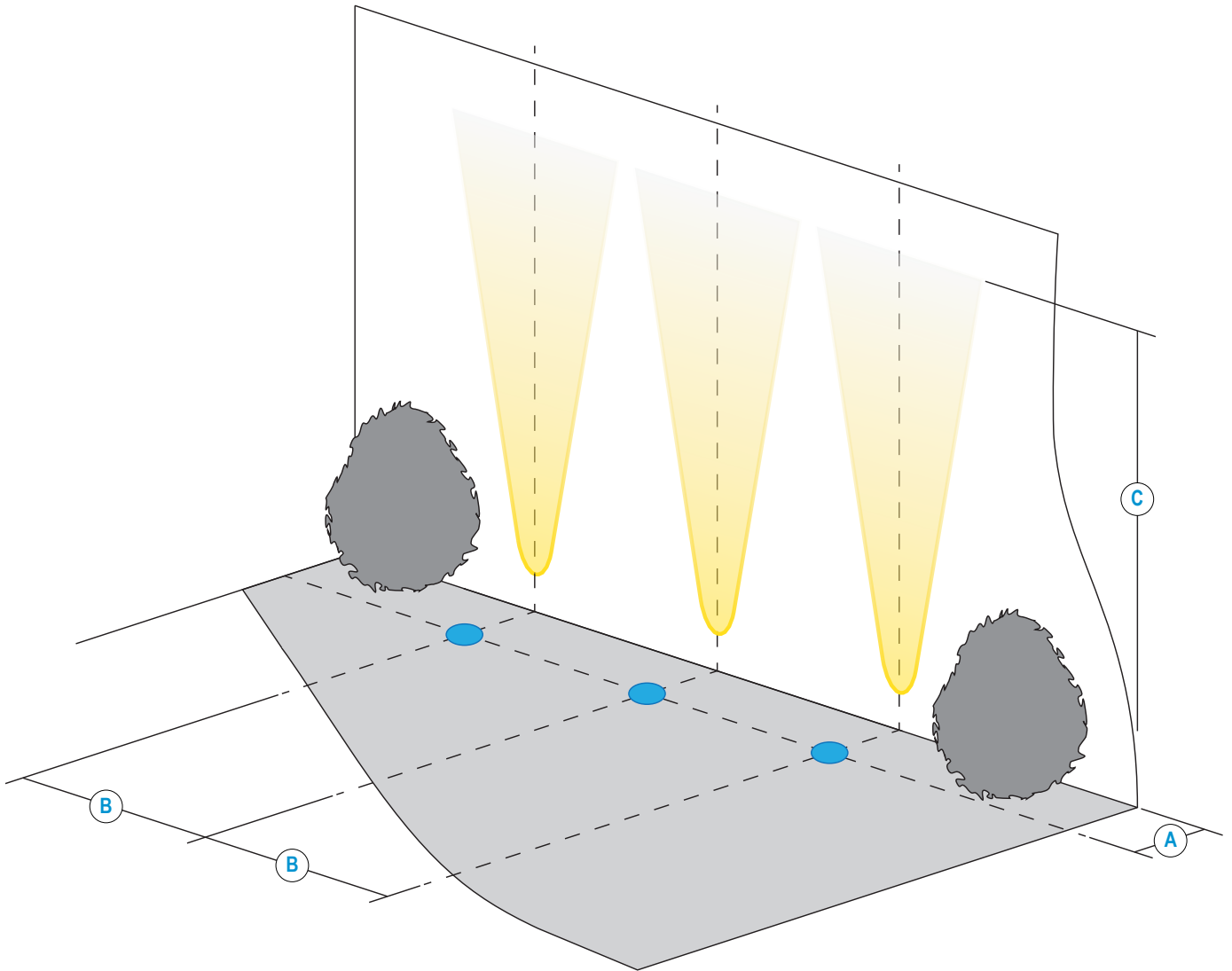
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## Installation Guide

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 LD150T product page on our website.



LD150T-E1	/NB	/MB	/WB	/WWB	/OB
<b>A</b> Distance from the centre of the fitting to the lit surface	250mm				
<b>B</b> Spacing for an even wash	250mm*	350mm	400mm	500mm	500mm
<b>C</b> 500mA Lit distance	7m	4.5m	3.5m	2m	4m
<b>C</b> 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.

# LD150T with E1 LED Light Engine

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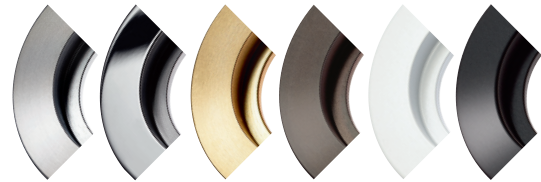


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## Product Features

### 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 further reduce glare.



### 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.

### 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







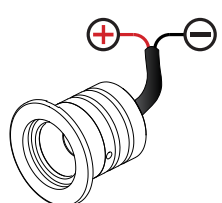
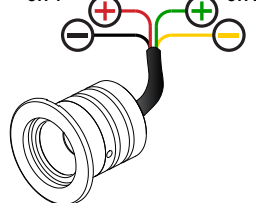
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## LED Options and Technology

### 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.

	<b>E1 Light Engine (White light applications)</b> 	<b>E1 Light Engine with 2nd channel</b> 
LED Board		
LED type	Cree XHP35	Cree XHP35 + XQE's
Key features	<ul style="list-style-type: none"> <li>- Available in 2700K, 3000K, 4000K and 5000K</li> <li>- Very small chip size</li> <li>- Tighter narrow beam</li> <li>- Wider range of beam angles</li> <li>- 2 step binning</li> <li>- Brighter more efficient LED</li> <li>- On board polarity protection</li> <li>- All copper LED board for increased thermal transfer</li> </ul>	<ul style="list-style-type: none"> <li>- Main white LED with optional 2nd channel for night lighting or marine navigation applications</li> <li>- 2nd channel comprises of 2 XQE LEDs mounted next to the XHP35</li> <li>- Beam shape from the XQE's is different from the main LED as they are not centralised within the optic</li> <li>- Mixing is not recommended</li> <li>- 2 driver circuits required</li> <li>- All copper LED board</li> </ul>
Cables		

### Industry Leading LED Thermal Management

High quality, embedded copper PCB, with direct contact cooling for the LEDs providing industry leading thermal management of the LED. Guaranteeing long life and minimal colour shift.



## Order Codes and Options

Product code	LED colour	Beam angle	Finish	Glare shield	Accessories
LD150T-E1-350 -500 -700	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Example: LD150T-E1-700 / LW30 / NB / Stainless Steel / NGS / 482N

### Product codes with output options

5W LED at 350mA	LD150T-E1-350
7W LED at 500mA	LD150T-E1-500
10W LED at 700mA (Must be specified with /482N)	LD150T-E1-700

### LED colour options

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) LD150T-E1-2CH	/LW**+L*

For other single colour options, please discuss with 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

### Bezel finish options

Stainless steel 316
Paint finish
Polished and passivated stainless steel (for marine environments)
Flamed solid bronze (antique finish)

### Glare shield

No glare shield	/NGS
Half-moon glare shield	/GS

### Fixing accessories

First fix sleeve	/482S
Concrete housing (specify when choosing LD150T-E1-700)	/482N
with integral non-dimming driver (single colour 350mA & 500mA outputs only)	/ID

### 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 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)