

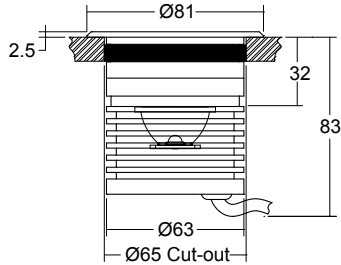
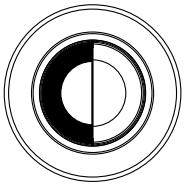
LD150 with new E1 LED Light Engine



High Power Interior LED Uplighter

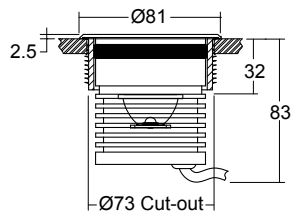
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Dimensions and Fixing Accessories



Soft silicon seal holds the fitting into the cut-out

/482S First fix sleeve

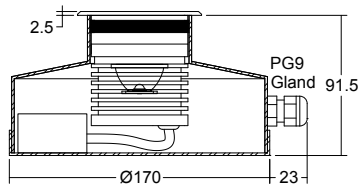


First fix sleeve is polypropylene. Fins on the side lock it into a range of mounting surfaces.

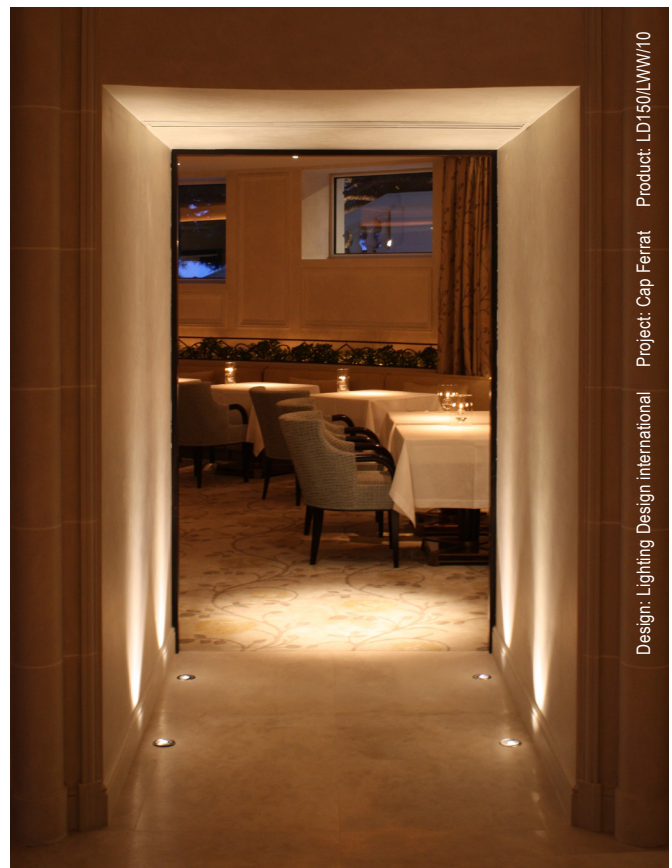
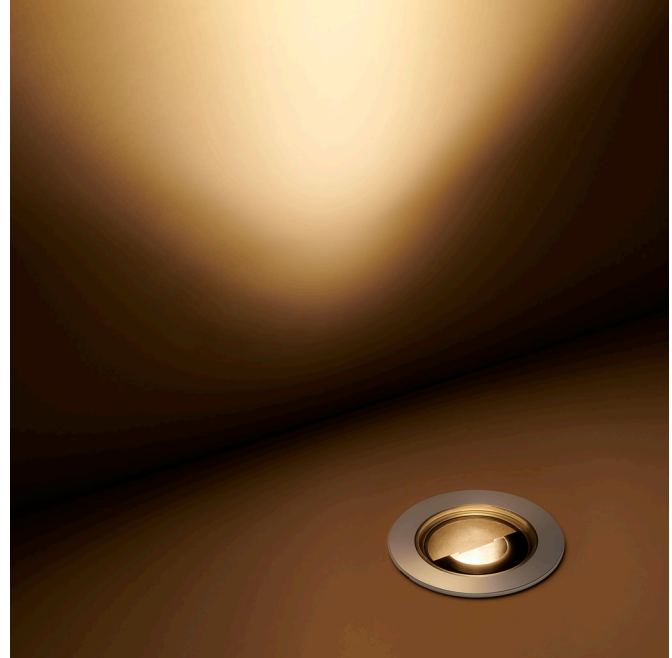
/482N Concrete housing

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

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



Design: Lighting Design international Project: Cap Ferrat Product: LD150/LWW/10

LD150 with new E1 LED Light Engine

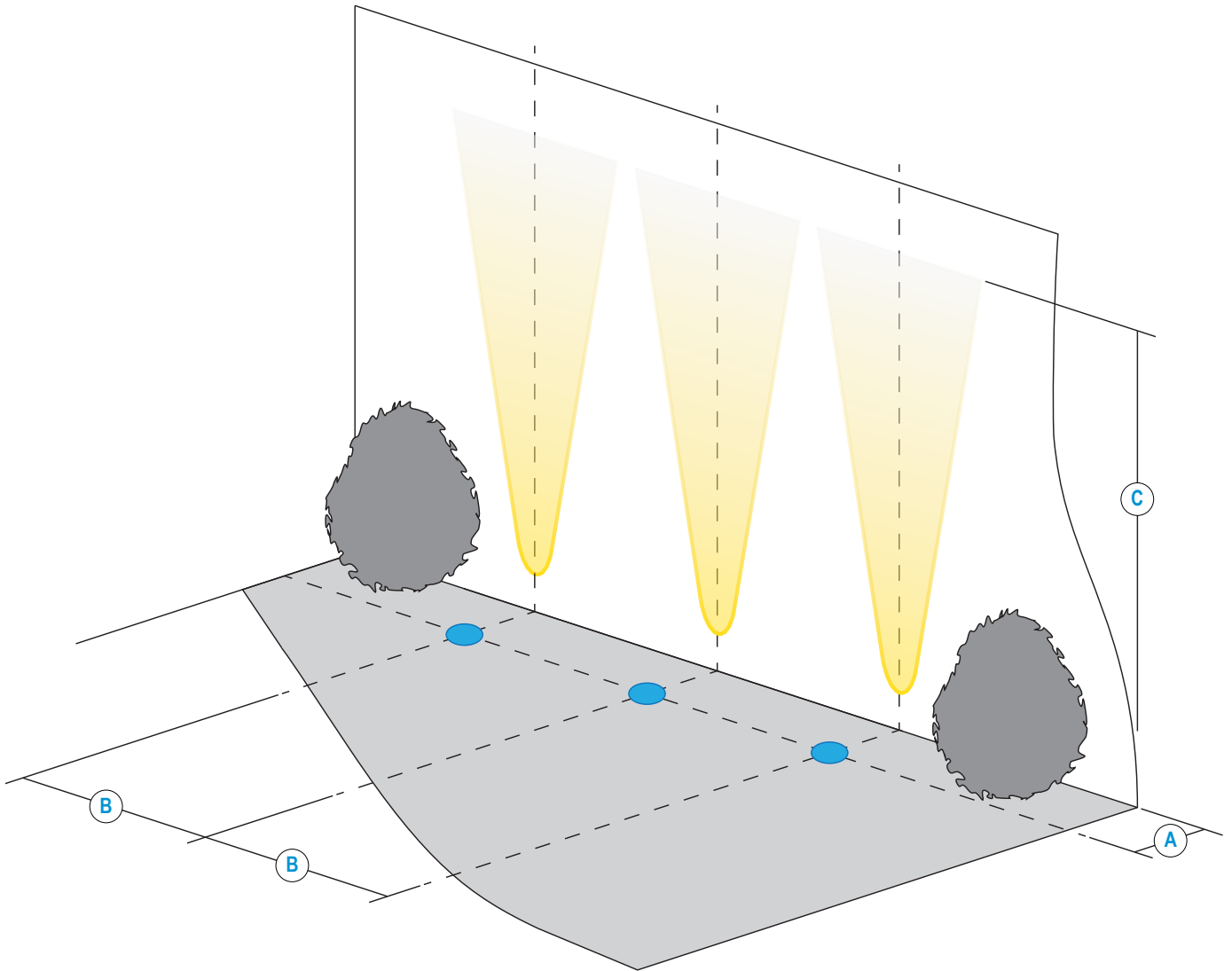


High Power Interior LED Uplighter

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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 LD150 product page on our website.



LD150-E1	/NB	/MB	/WB	/WWB	/OB
A 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.

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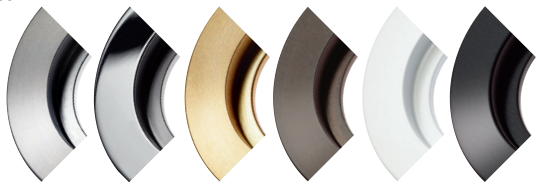


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Product Features



BEZEL
High quality machined bezel available in 316 stainless steel, 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
Revised high efficiency optics with a new range of beam angles to create the ideal lit effect.

OPTIC HOLDER
Matt black anodised for reduced glare.

- 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.

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.



LD150 with new E1 LED Light Engine



High Power Interior LED Uplighter

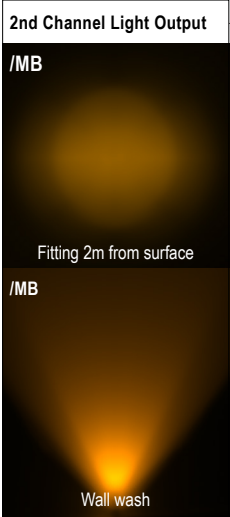
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LED Options and Technology

New LED Options

LD150 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 White	RGBW
LED Board					
LED type	Cree XHP35	Cree XHP35 + XQE's	Cree XQE's	Cree XQE's	Cree XML
Key Features	<ul style="list-style-type: none"> - 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 	<ul style="list-style-type: none"> - 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 mounted to the sides of the optic - 2 driver circuits required - All copper LED board 	<ul style="list-style-type: none"> - 4 colour XQE LEDs mounted under a single optic - All copper LED board - Red, Blue, Green and Amber colour LED options - Single LED circuit 	<ul style="list-style-type: none"> - 4 XQE LEDs mounted under a single optic - 2 LEDs per colour - Excellent dynamic white mixing from a range of optics - All copper LED board - 2 driver circuits required 	<ul style="list-style-type: none"> - 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					
Lumen output	See front page	See front page		See table below	



Colour temperature	Warm White 2700K or 3000K	Cool White 4000K or 5000K
Current	500mA	500mA
LED power (Max) All channels in use	7W (6.3W) 3.5W per channel	
CRI (Min)	85	
Delivered lumens (L ₁₀₀)	148lm	188lm
Lumens per circuit watt	42	54

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.

LD150 with new E1 LED Light Engine

High Power Interior LED Uplighter

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**Order Codes and Options****White LED Options - E1 Light Engine**

Product code	LED colour	Beam angle	Glare shield	Finish	Accessories
LD150-E1 - 350 - 500 - 700					

Example: LD150-E1-700 / LW30 / NB / NGS / Stainless Steel / 482N

Product codes with output options

5W LED at 350mA	LD150-E1-350
7W LED at 500mA	LD150-E1-500
10W LED at 700mA (Must be specified with /482N)	LD150-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) LD150-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

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

Fixing accessories

First fix sleeve	/482S
Concrete housing (specify when choosing LD150-E1-700) with integral non-dimming driver (350mA & 500mA outputs only)	/482N /ID

Glare shield

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

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 LD150-E1-350 in series use a TXDEL350D (0-10V dimmable)

To run 1-4 LD150-E1-500 in series use a TXDEL500D (0-10V dimmable)

To run 1-3 LD150-E1-700 in series use a TXDEL700D (0-10V dimmable)

Colour LED Options - CLR Light Engine

Example: LD150-CLR-500 / LR / MB / NGS / Stainless Steel / 482N

LED colour options (max 500mA)

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

Tunable White Options - TW Light Engine

Product code	LED colour	Beam angle	Glare shield	Finish	Accessories
LD150-TW - 350 - 500					

Example: LD150-TW-500 / LW27 + LW40 / NB / NGS / Stainless Steel / 482N

Product codes with output options

5W LED at 350mA - 2 channels of 2 x 1.2W	LD150-TW-350
7W LED at 500mA - 2 channels of 2 x 1.7W	LD150-TW-500

LED colour options

LED colour options	Suffix
Tunable White 2700K & 4000K (standard option)	/LW27 + LW40
Tunable White 2700K & 5000K	/LW27 + LW50
Custom	/LW** + LW**

Fitting comprised of 2x LEDs in one colour temperature & 2x LEDs in another. Other white colour options available on request, please discuss with our sales team.

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

Use with 350mA & 500mA 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 1-7 LD150-TW-350 in series use 2x TXDEL350D (0-10V dimmable)

To run 1-7 LD150-TW-500 in series use 2x TXDEL500D (0-10V dimmable)

Colour Change RGBW Options - RGBW Light Engine

Product code	Glare shield	Finish	Accessories
LD150-RGBW - 350 - 500			

Example: LD150-RGBW-500 / NGS / Stainless Steel / 482N

Product codes with output options

5W LED at 350mA (4x 1.2W LEDs)	LD150-RGBW-350
7W LED at 500mA (4x 1.7W LEDs)	LD150-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 drivers

We have a range of dimmable LED drivers DMX and DALI compatible. Please see the downloads section on our website:

To run 2-13 LD150-RGBW-350 in series use a TXDEL4A350DMX or TXDEL4A350DALI

To run 2-13 LD150-RGBW-500 in series use a TXDEL4A500DMX or TXDEL4A500DALI