

## LD197 / LD197A

### MID-POWER RECESSED EXTERIOR YACHT LED DOWNLIGHT



The LD197 is a mid-power, high-quality machined downlight, designed to withstand harsh marine environments. It offers excellent wall washing and features a high transmission frosted opal diffuser, for an impressively wide, even and soft beam distribution. The LD197A option features an asymmetric reflector, which tilts and focuses the beam onto the lit surface for a concentrated lit effect. The fitting is very compact and is mounted inside a hard anodised aluminium body, with marine grade bezel finish options available.



## KEY FEATURES






- > Mid-power downlight featuring F1 LED engine, delivering up to 413 lumens at 700mA in 3000K
- > Extremely wide beam distribution up to 87°, with frosted opal diffuser for an even and soft beam distribution
- > LD197A option features an asymmetric reflector which tilts the light by 5° onto the lit surface for a concentrated lit effect
- > Designed with robust materials for harsh marine environments, rated IP67
- > Compact overall depth with excellent thermal management and light output performance at high or low ambient temperatures
- > Designed to be fixed flush in the mounting surface
- > Wide range of high-quality machined marine-grade metal and paint finishes available, including: 316 Stainless Steel, Polished & Passivated 316 Stainless Steel and paint finishes; White (RAL 9016), Black (9005), Silver, Antique Bronze, Satin Brass, Satin Antique Brass, Anthracite Grey (7016) or any RAL colour
- > Screw fixing method, directly fixes in to mounting surface
- > Integral anti-wicking barrier increases protection against moisture ingress due to incorrect IP rated cable connections.
- > Switched, 0-10V, Casambi, DMX, DALI, or Mains dimmable drivers available

## DIMENSIONS

*Dimensions in mm*



## WHITE LED ENGINE SPECIFICATION

Product	LD197 (Lambertian reflector)		LD197A (Asymmetric reflector)	
Engine	 F1		 F1	
Beam angles	87°		82°	
LED manufacturer	CREE		CREE	
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K		2200K / 2700K / 3000K / 4000K / 5000K	
Current	700mA		700mA	
LED power (Max)**	6.3W (7W**)		6.3W (7W**)	
Delivered lumens (L <sub>100</sub> )*	413		350	
Lumens per circuit watt	66		56	
CRI (Typ)	90		90	
Forward voltage (V <sub>100</sub> )	9V		9V	
Colour consistency	2 SCDM		2 SCDM	
Peak intensity	196 cd		176 cd	
LED Lumens	623		623	
LOR	0.63		0.54	
TM30	RF91	RG99	RF91	RG99
LED lifetime	L90B5 at 90,000hrs		L90B5 at 90,000hrs	
UGR***	25.3			
Applications	  			

This data is based around a LD197-F1-700-LW30 and LD197A-F1-700-LW30

\*see lumen variance table to the right

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

\*\*\*UGR values based on room parameter of 4H 8H, C70 W50 F20

Lumen variance by CCT	
2200K	-17%
2700K	-4%
3000K	0%
4000K	+16%
5000K	+34%

## MECHANICAL

Ambient temperature	-20°C to 45°C (700mA)
Glass	Low iron clear glass, 3mm thick
Materials	316 Stainless Steel bezel, black hard anodised aluminium
Weight of product	0.496kg
Static load	2000kg
IP rating	IP67
Wiring	In-series constant current wiring (pre-wired with 2 core cable at a length of 350mm)

## AVAILABLE FINISHES

*Please refer to our finishes guide for full details*

### POLISHED & PASSIVATED 316 STAINLESS STEEL

- > Marine Grade 316 Stainless Steel
- > Pristine mirror like finish
- > Recommended for pools and marine applications
- > Extremely durable with very high corrosion resistance
- > Passivated to extensively prolong resistance to corrosion and brown stains caused by oxidation in marine environments
- > Interior & exterior use



### 316 STAINLESS STEEL

- > Marine grade 316 Stainless Steel
- > Standard machined finish
- > Extremely durable with very high corrosion resistance
- > Passivation recommended for marine environments to further strengthen corrosion resistance if fitting is to be continuously subjected to salt water
- > Interior & exterior use



### PAINT FINISH

- > Fine coating paint finish
- > White (RAL 9016), Black (RAL 9005), Antique Bronze, Satin Antique Brass, Satin Brass, Anthracite Grey (7016) or any RAL colour available
- > 7 Standard colours available but any RAL can be specified
- > Interior & exterior use



**WHITE (RAL 9016)**



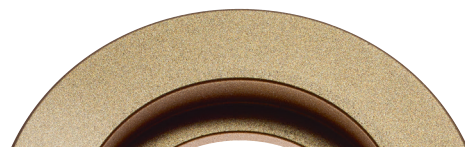
**BLACK (RAL 9005)**



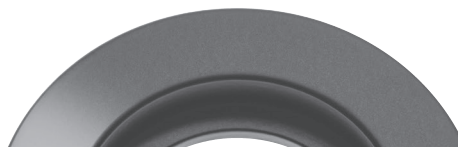
**ANTIQUE BRONZE**



**SATIN ANTIQUE BRASS**



**SATIN BRASS**



**ANTHRACITE GREY (RAL 7016)**



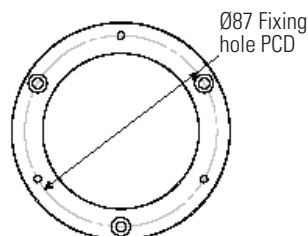
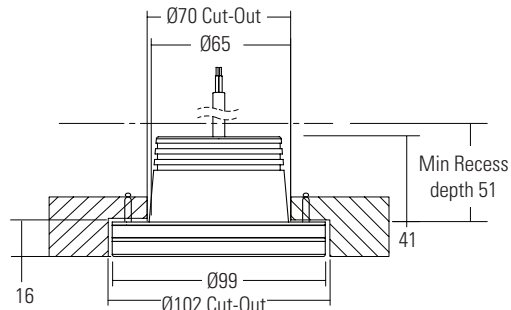
**RAL COLOURS**

## DIMENSIONS & FIXING OPTIONS

Dimensions in mm

### Flush mounted installation option

A flush ceiling mounted installation can be achieved when the fitting is rebated into the mounting surface. For further details, please refer to the LD197 installation guide.

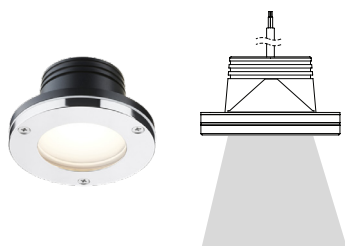


## LIGHT OUTPUT OPTIONS

There are two optic options offered on the LD197. The standard LD197 is ideal for wall washing and general ambient lighting, whilst the LD197A features a tilted beam for focusing the light onto the lit surface.

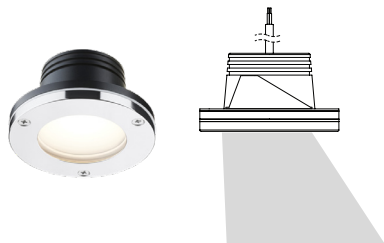
### LD197

Features a symmetric reflector optic, combined with a high transmission opal diffuser producing a wide spread, even and soft wall wash.



### LD197A

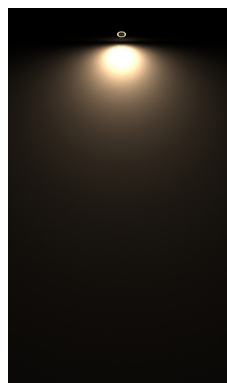
Features an asymmetric reflector optic to create a 5° tilt, focusing the light onto the lit surface for a concentrated beam. Ideal for lighting objects slightly further away from the mounting surface.



## CONE DIAGRAMS

Cone diagrams below are based on a 3000K F1 LED engine run at maximum output 700mA in one direction. Photometric files (LDT) are included in the design pack which can be downloaded from the LD197 product page on the website.

### LD197-F1/700mA



Distance (m)	Luminance (lx)	
0.5	0.95	816
1.0	1.90	204
1.5	2.86	91
2.0	3.81	51
2.5	4.76	33
3.0	5.71	23

Cone Width (m)

### LD197A-F1/700mA



Distance (m)	Luminance (lx)	
0.5	0.95	816
1.0	1.90	204
1.5	2.86	91
2.0	3.81	51
2.5	4.76	33
3.0	5.71	23

Cone Width (m)



## ORDER CODES & OPTIONS

EXAMPLE: LD197A-F1-700 / LW30 / STAINLESS STEEL

Light Engine & Drive Current

LED Colour

Finish

LD197(A)-F1-700

/

/



F1

7W LED at 700mA

LD197-F1-700  
LD197A-F1-700

Super Warm White (2200K)	/LW22
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50



Polished & Passivated  
316 Stainless Steel  
(for marine environments)



316 Stainless Steel



Paint Finish - White  
(RAL 9016)



Paint Finish - Black  
(RAL 9005)



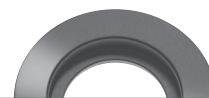
Paint Finish - Antique Bronze



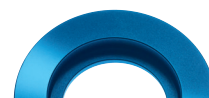
Paint Finish - Satin Antique Brass



Paint Finish - Satin Brass



Paint Finish - Anthracite Grey  
(RAL 7016)



Paint Finish - RAL

### Drivers

Use with 700mA constant current LED drivers

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