

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
- >  Contains our integral moisture guard (anti-wicking barrier), stopping water ingress from going up the cable into the product from incorrect IP-rated 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 ₁₀₀)*	413		350	
Lumens per circuit watt	66		56	
CRI (Typ)	90		90	
Forward voltage (V ₁₀₀)	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-F1-700-930 and LD197A-F1-700-930

*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)



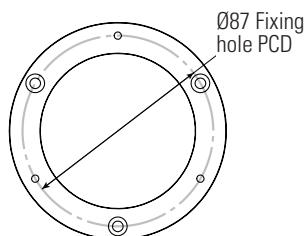
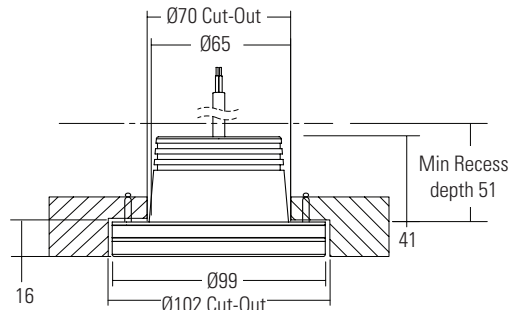
RAL COLOURS

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.

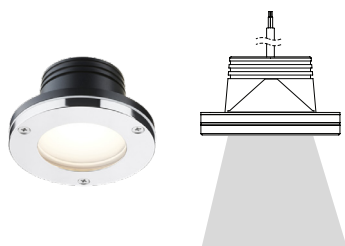


LIGHT OUTPUT OPTIONS

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.

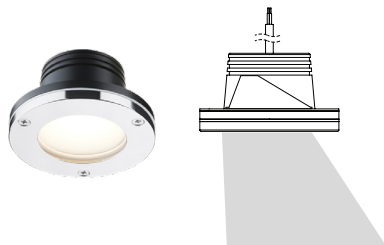
LD197

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)	Illuminance (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)	Illuminance (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-F1-700/930/Polished & Passivated 316 Stainless Steel

Light Engine & Drive Current		LED Colour		Finish	
LD190(A)-F1-700					
/		/			
 F1					
7W LED at 700mA	LD197-F1-700 LD197A-F1-700	Super Warm White (2200K)	/922	 Polished & Passivated 316 Stainless Steel (for marine environments)	
		Extra Warm White (2700K)	/927	 316 Stainless Steel	
		Warm White (3000K)	/930	 Paint Finish White (RAL 9016)	
		White (4000K) on request	/940	 Paint Finish Black (RAL 9005)	
		Cool White (5000K)	/950	 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.