LD197 / LD197A

LD197 / LD197A
MID-POWER RECESSED EXTERIOR YACHT LED DOWNLIGHT

700 mA | IP67

MOISTURE GUARD

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

For fixings and dimensions please go to page 4.



LD197 / LD197A

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%

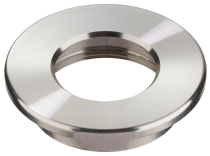
MECHANICAL

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

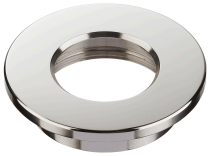
Please refer to our finishes guide for full details

MACHINED & PLATED FINISHES



316 STAINLESS STEEL
/SS

- Marine grade 316 Steel
- Standard machined finish
- Extremely durable with very high corrosion resistance
- Passivation recommended for marine environments to prevent corrosion and build up of brown stains caused by oxidation
- Interior & exterior use



POLISHED & PASSIVATED 316 STAINLESS STEEL
/PPSS

- Marine Grade 316 Steel
- Mirror like finish
- 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

POWDER COAT PAINT FINISHES

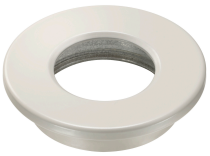
Our paint finishes are suitable for interior, exterior, and high-saline environments. All our painted finishes are applied in-house, allowing us to maintain complete control over quality and consistency. This also means we can easily accommodate any RAL colour specification in addition to our standard colour range, offering you full flexibility for custom projects.



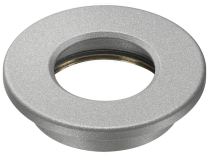
MATT BLACK
/PCBLK



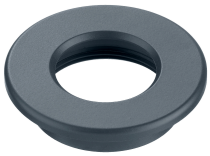
MATT WHITE
/PCWHT



ANTIQUE WHITE
/PCAWHT



MATT SILVER
/PCMS



ANTHRACITE GREY
/PCANTGREY



GUNMETAL GREY
/PCGMG



ANTIQUE BRONZE
/PCANTBRZ



EARTH BRONZE
/PCEBRZ



DESERT BRONZE
/PCDBRZ



TEXTURED MARS BRONZE
/PCMARS



TEXTURED FIR GREEN
/PCTFG



WHITE STONE
/PCTWS



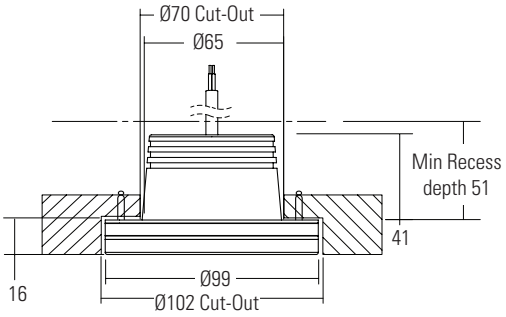
CUSTOM RAL
/CUSTFINISH

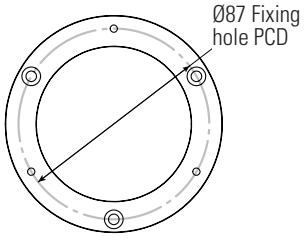
DIMENSIONS & FIXING OPTIONS

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.



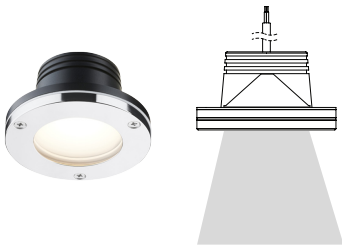


LIGHT OUTPUT OPTIONS

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.

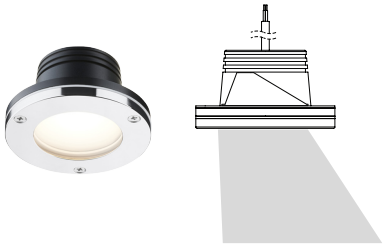
LD197

Features a symetric 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
Extra Warm White (2700K)	/927
Warm White (3000K)	/930
White (4000K) on request	/940
Cool White (5000K)	/950

Machine Finish
316 Stainless Steel
Polished & Passivated Stainless Steel
Powder Coat
Matt Black
Matt White
Antique White
Matt Silver
Anthracite Grey
Gun Metal Grey
Antique Bronze
Earth Bronze
Desert Bronze
Textured Mars Bronze
Textured Fir Green
White Stone
Any 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.