LD42

LOW GLARE MINIATURE RECESSED INTERIOR/EXTERIOR LED WALL LIGHT

(○) (350 mA) (500 mA) (IP68)

The LD42 fitting is a miniature recessed LED wall light, ideal for discreet lighting of steps and pathways in interior, exterior and marine applications. The lens assembly is recessed 10mm within the body for low glare, which can be further reduced with a unique combination of glare shield and Tilt lens options to suit individual application requirements. This includes aperture reductions of 45% or 70%, with or without an integral 20° Tilt lens, which focuses the light onto the lit surface for a concentrated lit effect. For a miniature fitting, LD42 produces an excellent throw of light when more output is required and with a high IP rating, is ideal for use in the harshest of environments. When used with our LD43 uplight, a uniform floor and wall washing effect can be achieved.

Design: Sian Baxter Lighting Design   Project: Private Residence   Product: LD42 with GS44-45 and Tilt lens

KEY FEATURES

> High-power C1 engine with NICHIA LED delivering up to 134lm

> Miniature fitting with very minimal body depth and bezel diameter

> Available with a 45% or 70% glare shield accessory

> Optional 20° Tilt lens angles the light onto the lit surface for a more concentrated effect

> Wide range of high-quality machined metal and painted bezel finishes available, including: 316 Stainless Steel, Polished & Passivated 316 Stainless Steel, Machined Brass, Flamed Solid Bronze, White (RAL 9016), Black (RAL 9005), Antique Bronze, Satin Antique Brass, Satin Brass, Anthracite Grey (RAL 7016) and any RAL

> High efficiency optics produce excellent beam spread and shape

> LED recessed 10mm within the body for reduced glare

> Glass fixed with hidden gasket means no unsightly glue line

> Hidden fixing options include spring clips or /480 first fix sleeve with O-rings

> Switched, 0-10V, Casambi, DMX, DALI or Mains dimmable drivers available

DIMENSIONS

Dimensions in mm

For fixing dimensions please go to page 3.

Ø27   Ø36

35
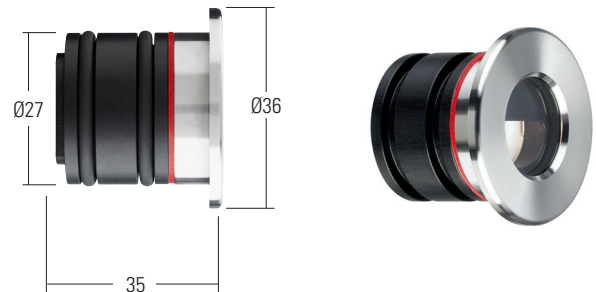
WHITE LED ENGINE SPECIFICATION

Engine	○ C1	
Beam angles	12°, 31°, 48°, 12° x 36°	
LED manufacturer	NICHIA	
Colour temperature	2200K / 2700K / 3000K / 4000K / 5000K	
Current	350mA	500mA
LED power (Max)**	1.2W	1.7W
Delivered lumens (L$_{100}$)*	103	134
Lumens per circuit watt	86	79
Forward voltage (V$_{100}$)	3V	3.2V
CRI (Typ)	93	
Colour consistency	2 SCDM	
Peak intensity	1057 cd	
LED Lumens	157lm	
LOR	0.84	
TM30	RF93	RG100
UGR***	18.3	
LED lifetime	L90B5 at 90,000hrs	
Applications		

This data is based on LD42-C1-500-LW30-NB
*Lumen output data applies to all colour temperatures
**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 parameters of 4H 8H, C70 W50 F20

MECHANICAL

Ambient temperature	-20° to 45° (350mA) or -20° to 35° (500mA)
Glass	3.3mm thick borosilicate
Materials	Hard anodised aluminium body with machined 316 stainless steel bezel
IP rating	IP68 - not suitable for permanent submersion
Wiring	In-series constant current wiring (pre-wired with 2 x single core cable at a length of 150mm*)

*Extendable cables available up to 2M. For longer cables see the LD44Y

ENVIRONMENTAL

TM65	Available on request
TM66	2.7

AVAILABLE FINISHES

Please refer to our finishes guide for full details

316 STAINLESS STEEL

> Marine grade 316 Steel
> Standard machined finish
> Extremely durable
> 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

> Marine Grade 316 Steel
> Mirror like finish
> Extremely durable
> Passivated to extensively prolong resistance to corrosion and brown stains caused by oxidation in marine environments
> Interior & exterior use

MACHINED BRASS

> Solid CZ121 Brass
> Standard machined finish
> Corrosion resistance rated fair to excellent
> Please note a natural green/brown patination layer will form after long term exposure to the elements, the extent of this discolouration will be dependant on its location.
> Interior & exterior use

FLAMED SOLID BRONZE

> Solid Bronze
> Hand finished Flamed Bronze unique to LightGraphix
> Extremely durable with very high corrosion resistance
> Please note a natural dark patination layer will form after long term exposure to the elements, the extent of this discolouration will be dependant on its location.
> Interior & exterior use

PAINT FINISH - WET SPRAY

> White (RAL 9016), Black (RAL 9005), Antique Bronze, Satin Antique Brass, Satin Brass, Anthracite Grey (7016) or any RAL colour available
> Not recommended for footlights in high traffic areas
> Interior & exterior use

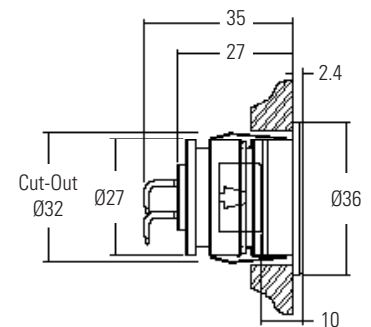## DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

/480 O-rings and sleeve
Robust, watertight method of fixing.
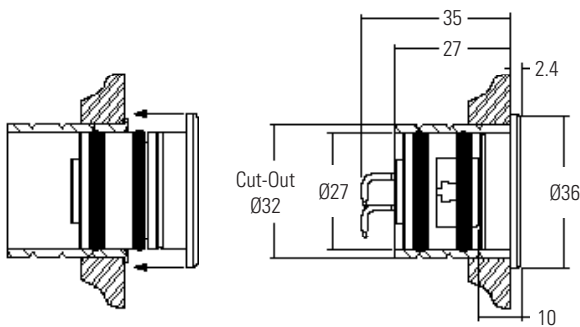
/SC Spring clip fixing
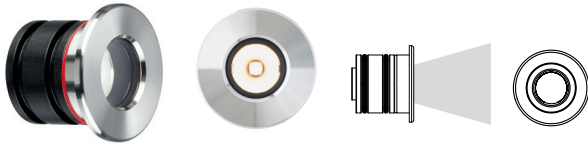Provide a simple single-fix mounting method.

Cut-Out Ø32 · 35 · 27 · 2.4 · Ø27 · Ø36 · 10

Cut-Out Ø32 · 35 · 27 · 2.4 · Ø27 · Ø36 · 10

Design: DPA Lighting   Project: The Langley Hotel, Buckinghamshire, UK   Product: LD42 with GS44-45

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GLARE CONTROL AND LIGHT OUTPUT OPTIONS

LD42
Circular aperture with lens and LED assembly recessed into the body by 10mm.

LD42 with GS44-45
Addition of a half-moon glare shield in front of the lens to further reduce glare. Please note that the Oval beam cannot be used with GS44-45.
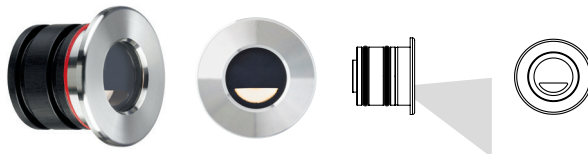
LD42 with Tilt lens and GS44-45
Features a half-moon glare shield, but with the addition of an integral 20° Tilt lens which angles the light towards the lit surface. Please note that the Oval beam cannot be used with Tilt lens and GS44-45.
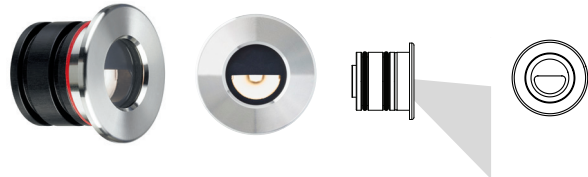
LD42 with GS44-70
Features a 70% glare shield for applications that require minimal output and glare. Please note that the Oval beam cannot be used with the GS44-70.

LD42 with Tilt lens and GS44-70
Features a 70% glare shield, but with the addition of an integral 20° Tilt lens which angles the light towards the lit surface. Please note this option is only available in a Narrow beam.
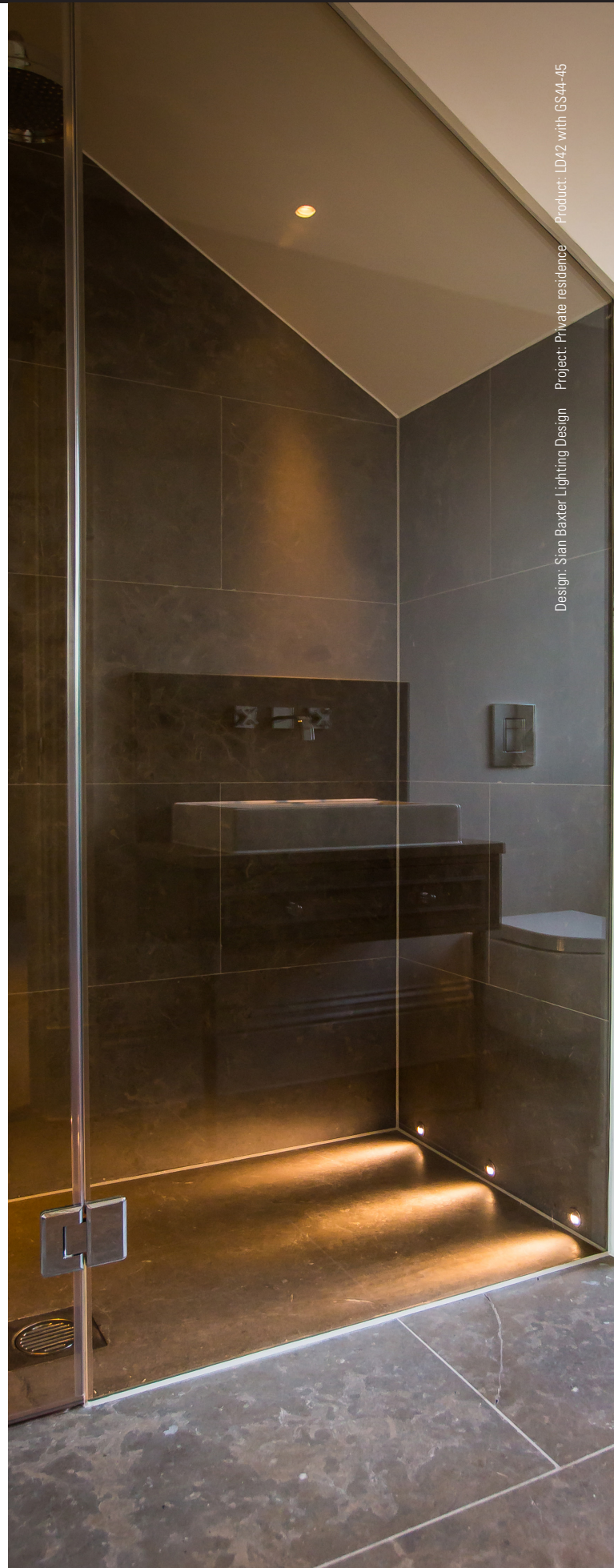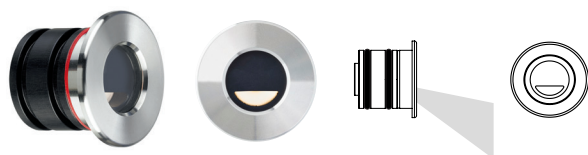
Design: Sian Baxter Lighting Design   Project: Private residence   Product: LD42 with GS44-45

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ORDER CODES & OPTIONS - LD42

Example: LD42 - C1-500 / LW30 / OB / L / NGS / 316 STAINLESS STEEL / SC

Light engine & drive current	LED colour	Beam angle	Optical option	Glare shield	Finish	Fixing
/	/	/	/	/	/	

C1

1.2W LED at 350mA	LD42-C1-350
1.7W LED at 500mA	LD42-C1-500

Super Warm White (2200K)	/LW22
Extra Warm White (2700K)	/LW27
Warm White (3000K)	/LW30
White (4000K) - on request	/LW40
Cool White (5000K)	/LW50
Red	/LR
Green	/LG
Blue	/LB
Amber	/LA

12° Narrow	/NB
31° Medium	/MB
48° Wide	/WB
12° x 36° Oval	/OB

20° Tilt	A
No tilt	L

Glare shield:

NGS

GS44-45 (not applicable with Oval beam)

GS44-70 (Not applicable with Oval beam. When using Tilt lens, only Narrow beam can be specified)

Finish:

316 Stainless Steel

Polished & Passivated 316 Stainless Steel (for marine environments)

Machined Brass

Flamed Solid Bronze

WET SPRAY Antique Bronze

WET SPRAY Satin Antique Brass

WET SPRAY Satin Brass

WET SPRAY Black (RAL 9005)

WET SPRAY Anthracite Grey (RAL 7016)

WET SPRAY White (RAL 9016)

WET SPRAY RAL

Fixing:

/480

/SC

Drivers
Use with 350mA and 500mA constant current LED drivers
We have a range of dimmable LED drivers including DMX and DALI compatible. Please see the downloads section on our website.

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