

LD42D

ULTRA-LOW GLARE MINIATURE
SEMI-RECESSED DOMED LED WALL LIGHT

350 mA | 500 mA | IP68 | 55°C Ta | PART L Display | 5 YEAR Warranty

The miniature LD42D is ideal for discreet lighting of steps and pathways within interior, exterior and marine applications. The fitting is an evolution of our popular LD42, offering a new bezel aesthetic. When viewed from above, the machined, domed bezel obscures the light source, resulting in ultra-low glare. LD42D offers a powerful floor wash reaching up to 3 metres, with an optional 20° Tilt lens to focus the beam down onto the lit surface. With Narrow to Oval beam angles available and a high IP rating, a range of lighting effects can be created even in the harshest environments.

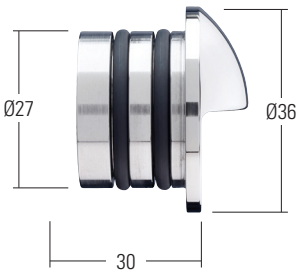
KEY FEATURES

- Machined domed body offers an ultra low glare solution by obscuring the light source from view and directing it only onto the lit surface
- High-power C1 engine with NICHIA LED delivering up to 73lm
- Miniature fitting with very minimal body depth and bezel diameter
- Optional 20° Tilt lens to focus the light down onto to the lit surface
- Range of beam angles including new Extra Oval beam, a wall grazing optic now available for floor washing across the LD42 range
- 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) or any RAL colour
- Use with our LD43 uplight for a uniform floor and wall washing effect
- 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 4.





WHITE LED ENGINE SPECIFICATION

Product	LD42D		LD42D with Tilt lens	
Engine	C1		C1	
Beam angles	12°, 31°, 50°, 30° x 66°		26°, 31°, 40°, 25° x 57°	
LED manufacturer	NICHIA		NICHIA	
Colour temperature*	2200K, 2700K, 3000K, 4000K, 5000K		2200K, 2700K, 3000K, 4000K, 5000K	
Current	350mA	500mA	350mA	500mA
LED power (Max)**	1.2W	1.7W	1.2W	1.7W
Delivered lumens (L_{100})*	61	73	57	69
Lumens per circuit watt	58	49	54	46
CRI (Typ)	93		93	
Forward voltage (V_{100})	3.2V		3.2V	
Colour consistency	2 SDCM		2 SDCM	
Peak intensity	448 cd		371 cd	
LED Lumens	157lm		157lm	
LOR	0.34		0.32	
TM30	RF92	RG100	RF92	RG99
LED lifetime	L90B5 at 90,000hrs			
Applications				

This data is based on LD42D-C1-500/930/NB and LD42D-C1-500/930/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

MECHANICAL

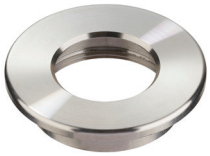
		350mA	500mA
Ambient temperature ○ 55°C	C1	-20°C to 55°C	-20°C to 50°C
	AUS/NZ	-20°C to 25°C	-20°C to 25°C
Glass	1.2mm thick low iron glass		
Materials	316 stainless steel bezel and body, stainless steel spring clips, acetal sleeve and rubber o-rings		
Weight of product	0.078kg		
IP rating	IP67		
Wiring	In-series constant current wiring (pre-wired with 2 x single core cable at a length of 150mm)		

TM65	Available on request
TM66	2.7
Repair + Refurbish	R+R This product is included in our Repair and Refurbish scheme. This offers customers the ability to send back products to us for repair or refurbishment to extend their life without having to buy new fittings.
RLE (REPLACEABLE LIGHT ENGINE)	RLE 2  Visit page 6 for replacement parts

AVAILABLE FINISHES

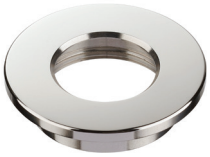
Please refer to our finishes guide for full details

MACHINED & PLATED FINISHES



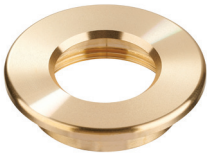
316 STAINLESS STEEL
/SS

- 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



MACHINED BRASS
/BS

- 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
/FBZ

- 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

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.



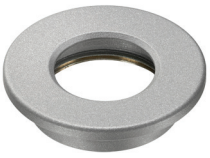
MATT BLACK
/PCBLK



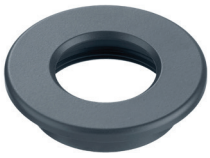
MATT WHITE
/PCWHT



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

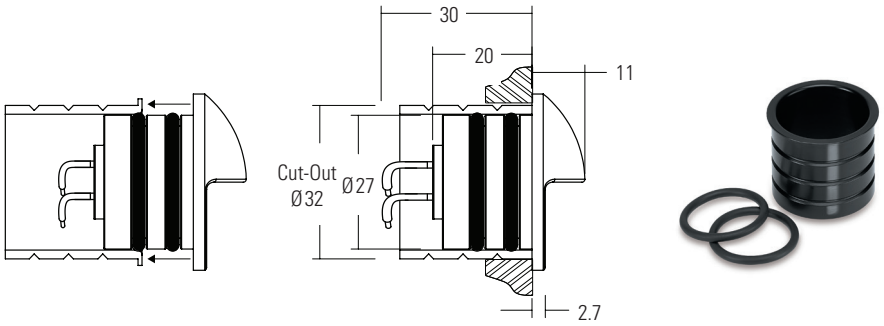


CUSTOM RAL
/CUSTFINISH

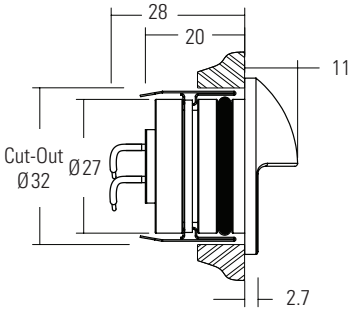
DIMENSIONS AND FIXING ACCESSORIES

Dimensions in mm

/480 O-rings and sleeve
Acetal sleeve rubber o-rings provide a robust, watertight method fixing.

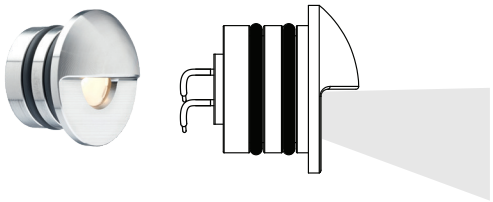


/SC Spring clip fixing
Stainless steel spring clips provide a simple single-fix mounting method.

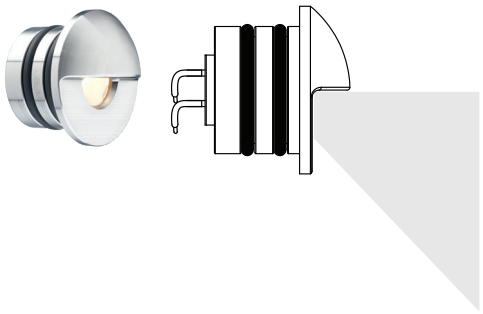


LIGHT OUTPUT OPTIONS

LD42D without Tilt lens
Provides a throw of light up to 3 metres when specified at 500mA, ideal for lighting wide staircases and pathways.

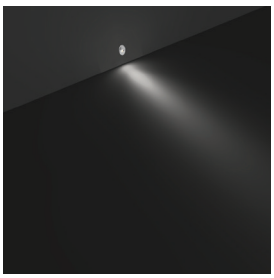


LD42D with Tilt lens
The addition of a 20° Tilt lens focuses the light down onto the lit surface for a concentrated effect. Ideal for discreet lighting or narrow applications.

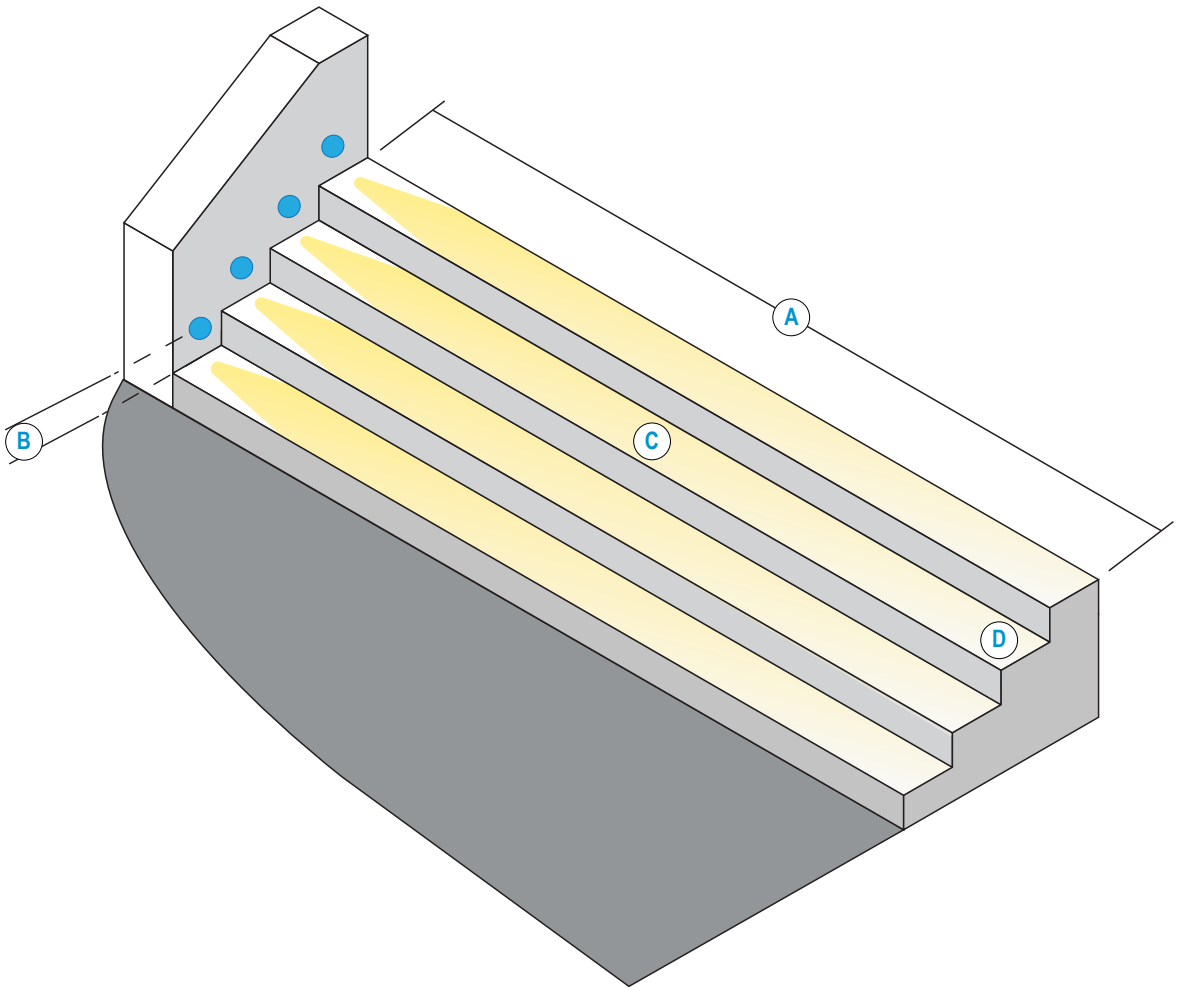


INSTALLATION GUIDE - STEP LIGHTING

Below is a step application guide with suggested luminaire mounting heights for lighting across steps. Every project and lighting scenario will be different and the table below is to be used as a starting point. Please use our photometric files to further test the desired effect for your application. Files are available on the LD42D product page on our website.



LD42D - NB



LD42D-350-NB

A	Step width	1000mm	1500mm	2000mm	2500mm	3000mm
B	Height of fittings	100mm (above step)				
C	Mid-step illuminance (Lux)	67 LX	44 LX	25 LX	15 LX	9 LX
D	End of step illuminance (Lux)	29 LX	10 LX	5 LX	3 LX	2 LX

LD42D-350-MB - with Tilt

A	Step width	1000mm	1500mm	2000mm	2500mm	3000mm
B	Height of fittings	175mm	200mm	225mm	250mm	275mm
C	Mid- step illuminance (Lux)	311 LX	84 LX	31 LX	14 LX	8 LX
D	End of step illuminance (Lux)	21 LX	5 LX	2 LX	1 LX	1 LX

LD42D-500-NB

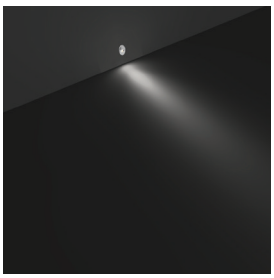
A	Step width	1000mm	1500mm	2000mm	2500mm	3000mm
B	Height of fittings	100mm (above step)				
C	Mid-step illuminance (Lux)	95 LX	53 LX	29 LX	17 LX	11 LX
D	End of step illuminance (Lux)	33 LX	12 LX	5 LX	3 LX	2 LX

LD42D-500-MB - with Tilt

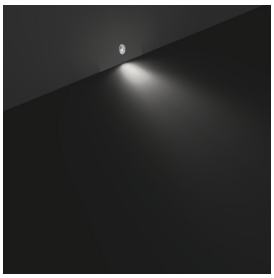
A	Step width	1000mm	1500mm	2000mm	2500mm	3000mm
B	Height of fittings	175mm	200mm	225mm	250mm	275mm
C	Mid-step illuminance (Lux)	372 LX	104 LX	3 LX	1 LX	1 LX
D	End of step illuminance (Lux)	26 LX	6 LX	38 LX	17 LX	10 LX

INSTALLATION GUIDE - BULWARK/PATHWAY LIGHTING

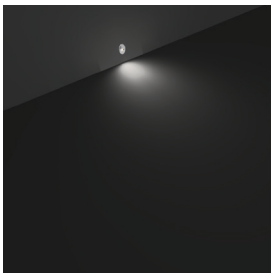
Below is an application guide for narrow corridors and pathways with suggested luminaire spacing and mounting heights for achieving an even floor wash. Every project and lighting scenario will be different and the table below is to be used as a starting point. Please use our photometric files to further test the desired effect for your application. Files are available on the LD42D product page on our website.



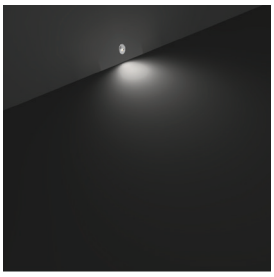
LD42D - NB



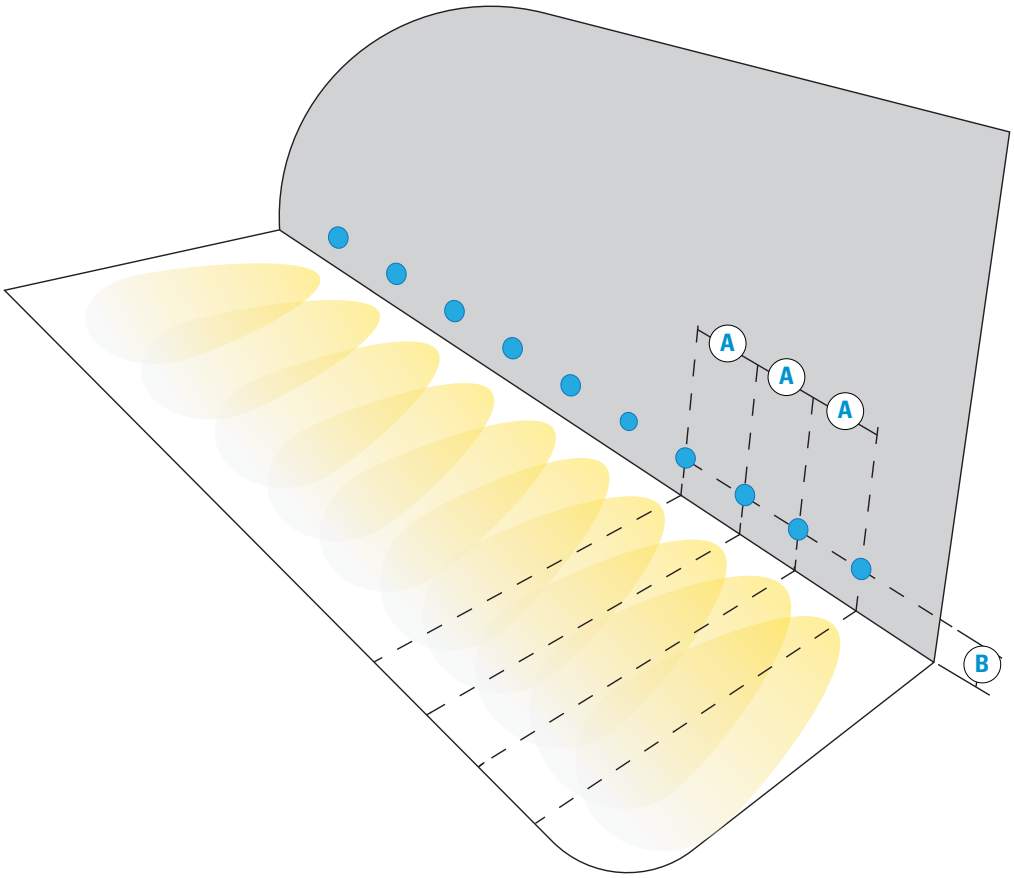
LD42D - MB



LD42D - WB



LD42D - EOB



LD42D-500		/NB	/MB	/WB	/EOB
A	Space between fittings	250mm	400mm	450mm	600mm
B	Height of fitting (from floor)	150mm	200mm	300mm	200mm
	Average (Lux)	77 LX	54 LX	48 LX	46 LX

LD42D-500 - with Tilt		/MSB	/MB	/WB	/EOB
A	Space between fittings	180mm	250mm	350mm	500mm
B	Height of fitting (from floor)	350mm	400mm	450mm	450mm
	Average (Lux)	202 LX	116 LX	76 LX	43 LX

Results based on achieving >0.6 uniformity on a 1.5M wide bulwark/pathway

RLE - REPLACEABLE LIGHT ENGINES

What is RLE

On the surface, RLE is LightGraphix's answer to the Circular economy question that is facing many industries at the moment. However for us, RLE is an ethos; a commitment that LightGraphix will factor in the principles of good circular design into all of its future product design. It allows us to offer luminaires that contain replaceable, energy-efficient light engines. This gives customers the ability to refurbish existing lighting installations rather have having to replace the entire luminaire. This will fall into two types of refurbishments: replaceable, and repairable.



RLE Engines

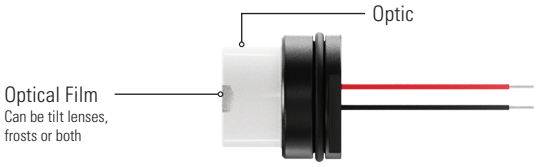
Repairs can be conducted on any site worldwide, or in our factory, with a small tool. Simply swap out the singular modular LED insert, and replace it with another, along with a new optic, which are both supplied by us. The warranty provided with the product with vary based on who is performing RLE repairs. There are three types of RLE engine, categorised based on the size of the product. RLE1 is the smallest, with RLE3 being the largest.

RLE2

Used in the following products:
LD42, LD42D, LD43 & LD43G

LD42D RLE REPLACEMENT PARTS

Please use the configurator below to specify your replacement engine and optic. If you are unsure of your original specifications, please check the label on your LightGraphix fitting, or get in touch with our sales team. Installation sheets will be supplied with the new components.



RLE Engine		LED Colour		Beam Angle		Accessories	
RLE 2 ENGINE	RLE2/	2200K 93+ CRI	/922	Narrow beam 16mm optic	RLE/OP-16/NB	Optical Filter / Tilt Lens 1	RLE/OF/TL1
		2700K 93+ CRI	/927	Medium beam 16mm optic	RLE/OP-16/MB	Optical Filter / Optical Lens 1 for EOB	RLE/OF/OL1
		3000K 93+ CRI	/930	Wide beam 16mm optic	RLE/OP-16/WB	Optical Filter / Frosted Filter 1 for MB	RLE/OF/FR1
		4000K 93+ CRI on request	/940	Oval beam 16mm optic	RLE/OP-16/EOB		
		5000K 93+ CRI	/950				

ORDER CODES & OPTIONS

Example: LD42D-C1-350/930/MSB/A/316 Stainless Steel/480

Light Engine & Drive Current / LED Colour / Beam Angle / Optical option / Finish / Fixing

Ambient temperature key: 55°C

C1

1.2W LED at 350mA*	LD42D-C1-350
1.7W LED at 500mA*	LD42D-C1-500

***AUS/NZ:**
Add - AU - suffix to the product code e.g. LD42D-AU-C1-350

2200K 93+ CRI	/922
2700K 93+ CRI	/927
3000K 93+ CRI	/930
4000K 93+ CRI on request	/940
5000K 93+ CRI	/950

12° Narrow (only available without Tilt lens)	/NB
26° Medium Spot (only available with Tilt lens)	/MSB
31° Medium	/MB
50° Wide (40° when used with Tilt lens)	/WB
30° x 66° Oval (25° x 57° when used with Tilt lens)	/EOB

20° Tilt (not available with Narrow beam)	A
No tilt	L

Machine Finish

- 316 Stainless Steel
- Polished & Passivated Stainless Steel
- Flamed Bronze
- Brass

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



/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.