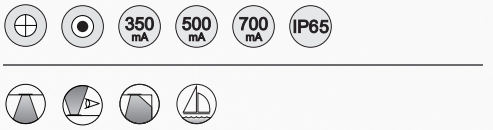
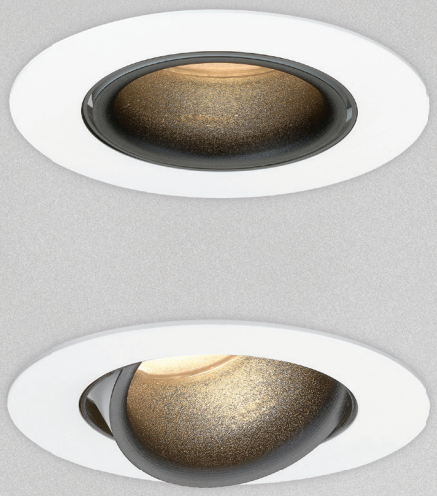
LD792

ADJUSTABLE COMPACT INTERIOR/ EXTERIOR 2-TONE LED DOWNLIGHT



The compact LD792 has an excellent size to output ratio with a deep recessed LED that is ideal for general downlighting and the highlighting of walls and columns within interior, exterior and marine applications. Featuring as standard a matt black inner baffle for ultra-low glare, this along with the bezel can be painted in a wide range of colours offering endless styling options to suit your design scheme requirements. The adjustable lens assembly can be tilted up to 30° to allow ultimate flexibility when focusing the product. Available LED engines include E2 and F1, offering colour temperatures of 2200K-5000K and a variety of beam angles, including a super tight 10° narrow beam with medium options for more general downlighting. Though compact, the LD792 provides brilliant thermal and light output performance, with a single optic generating a superior beam shape and no multiple shadows.



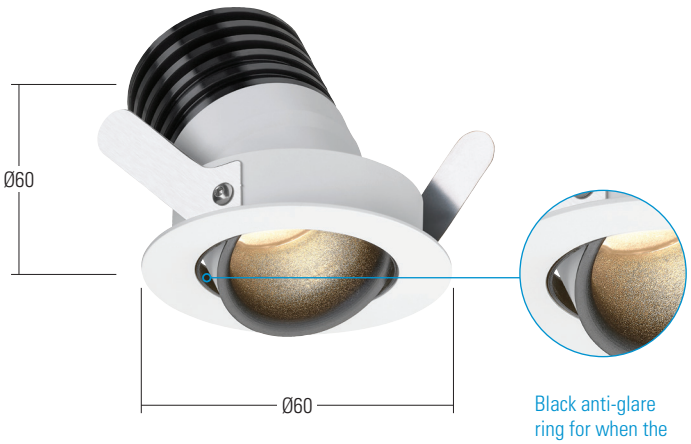
KEY FEATURES

- Very low glare with a deep recessed optic set back 25mm
- Black anti-glare ring (see diagram) to prevent glare when tilted
- Single optic for superior beam shape with no multiple shadows
- Matt black, low glare inner baffle is supplied as standard and can be painted in a colour of choice
- Compact powerful fitting delivering over 400lm in 3000K
- Super tight 10° narrow spot beam available
- Machined aluminium bezel available in a wide range of finishes; White (RAL 9016), Black (RAL 9005), Silver, Antique Bronze, Satin Antique Brass, Satin Brass, Anthracite Grey (RAL 7016) or any RAL paint finish
- 30° tilt adjustability for ultimate flexibility
- Versatile fitting rated IP65, ideal for interior and exterior projects including marine, hospitality and residential general downlighting, column and wall washing
- Features our E2 & F1 LED engines which is used across our uplight and surface mounted products enabling colour and beam consistency across a project
- E2 engine features reverse polarity protection
- F1 COB engine with super warm 2200K option and 90+ CRI
- Switched, 0-10V, Casambi, DMX, DALI, or Mains dimmable drivers available

DIMENSIONS

Dimensions in mm

For fitting dimensions please go to page 3.



Black anti-glare ring for when the product is tilted.

LED ENGINE SPECIFICATION

Engine	E2		F1		
Beam angles	10°, 26°		21°, 28°		
LED manufacturer	CREE		CREE		
Colour temperature*	2700K / 3000K / 4000K / 5000K		2200K / 2700K / 3000K / 4000K / 5000K		
Current	350mA	500mA	350mA	500mA	700mA
LED power (Max)	4.2W (5W**)	6W (7W**)	3.2W (3.5W**)	4.5W (5W**)	6.3W (7W**)
Delivered lumens (L_{100})	265	426	235	280	385
Lumens per circuit watt	79	72	81	73	67
CRI (Min)	85+		90+		
Forward voltage (V_{100})	14V		9V		
Colour consistency	2 SCDM		3 SCDM		
Peak intensity	6027 cd		2076 cd		
LED lumens	574		715		
LOR	0.58		0.54		
TM30	84.7	99	90.1	102.2	
UGR***	11.5		10.3		
LED lifetime	L90B5 at 90,000hrs		L80B5 at 80,000hrs		
Applications					

These values are based around a LD792-E2-500-LW30-NB & LD792-F1-700-LW30-MSB
*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 parameters of 4H 8H, C70 W50 F20

Lumen variance by CCT	
2700K	+/- 0%
4000K	+7%
5000K	+16%

MECHANICAL

Ambient temperature	-20° to 45° (350mA) or -20° to 35° (500mA)
Glass	Low iron clear glass, 1mm thick
Materials	Aluminium bezel, anodised aluminium body
Weight of product	0.14kg
IP rating	IP65
Wiring	In-series constant current wiring (pre-wired with 2 core cable at a length of 250mm)

AVAILABLE FINISHES

Please refer to our finishes guide for full details

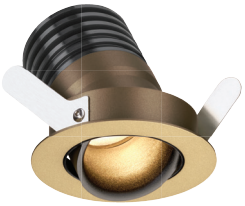
The LD792 bezel is machined from aluminium and painted in-house at LightGraphix. Wet spray paint finishes are suitable for interior, exterior and high saline marine environments. Our standard colours are below but we can accommodate any RAL request.

WHITE (RAL 9016)

BLACK (RAL 9005)

SILVER ANODISED

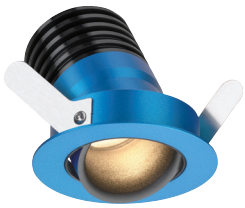
ANTIQUE BRONZE



SATIN ANTIQUE BRASS

SATIN BRASS

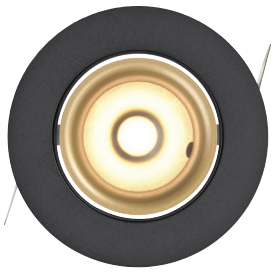
ANTHRACITE GREY (RAL 7016)

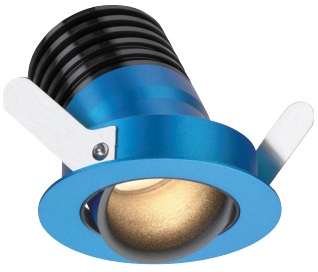


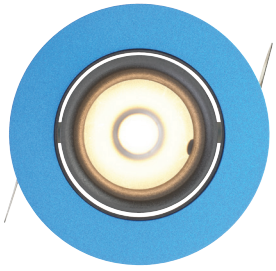
RAL

2-TONE PAINTING (BLACK BAFFLE FINISH OPTIONS)

As standard the inner baffle is supplied in a low glare matt black textured finish but can also be painted in a colour of choice to offer complete design scheme flexibility. When specifying your order codes and options, please indicate a bezel finish as well as inner baffle colour. A fixed version of this product, the LD782 is available.

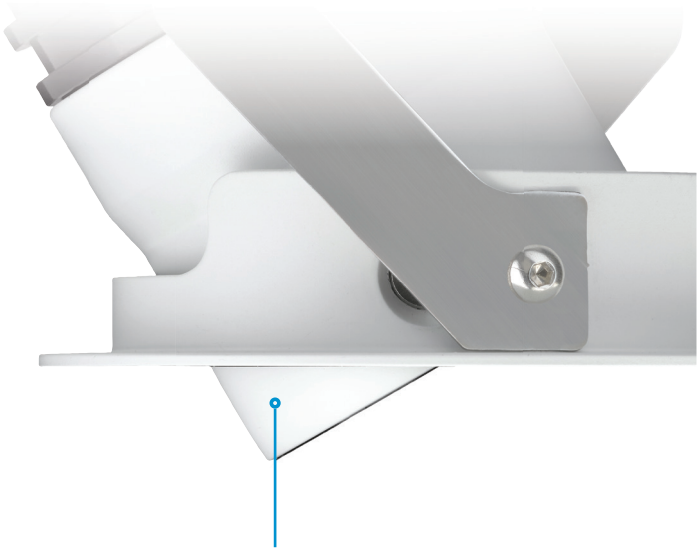






PAINT FINISH NOTE

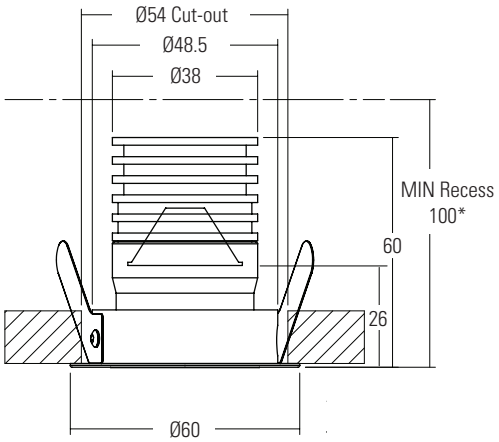
The outer baffle finish matches the bezel finish which can be seen when the product is titled.

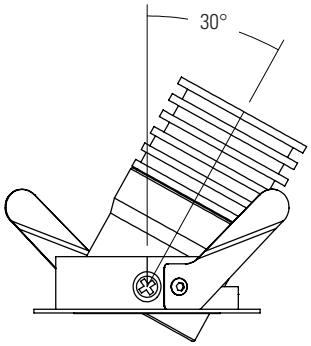


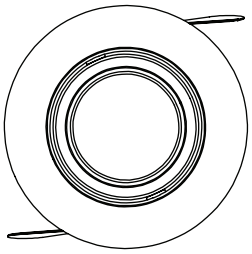
DIMENSIONS & FIXING OPTIONS

Dimensions in mm

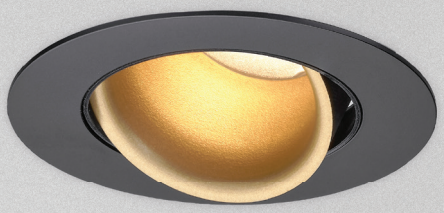
2 x spring clips are supplied as standard and provide a simple single-fix mounting method. Suitable for use in surfaces with a thickness of 1mm – 25mm.







*see ceiling requirements table for more information



CONE DIAGRAMS

E2 LED Engine

Cone diagrams below are based on a 3000K E2 LED engine run at maximum output 500mA, 7W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD792 product page on the website.

Narrow Spot Beam
500mA using a 10° optic

Distance (m)	Luminance (lx)	
0.5	0.11	00
1.0	0.21	00
1.5	0.32	00
2.0	0.42	00
2.5	0.53	00
3.0	0.63	00

Cone Width (m)

Medium Beam
500mA using a 26° optic

Distance (m)	Luminance (lx)	
0.5	0.24	00
1.0	0.48	00
1.5	0.71	00
2.0	0.95	00
2.5	1.19	00
3.0	1.43	00

Cone Width (m)

F1 LED Engine

Cone diagrams below are based on a 3000K F1 LED engine run at maximum output 700mA, 7W. Images below represents beam outputs when wall washing a 3m wall, spaced 125mm away from the lit surface. Photometric files (LDT) are included in the design pack which can be downloaded from the LD792 product page on the website.

Medium Spot Beam
700mA using a 21° optic

Distance (m)	Luminance (lx)	
0.5	0.19	00
1.0	0.38	00
1.5	0.57	00
2.0	0.76	00
2.5	0.94	00
3.0	1.13	00

Cone Width (m)

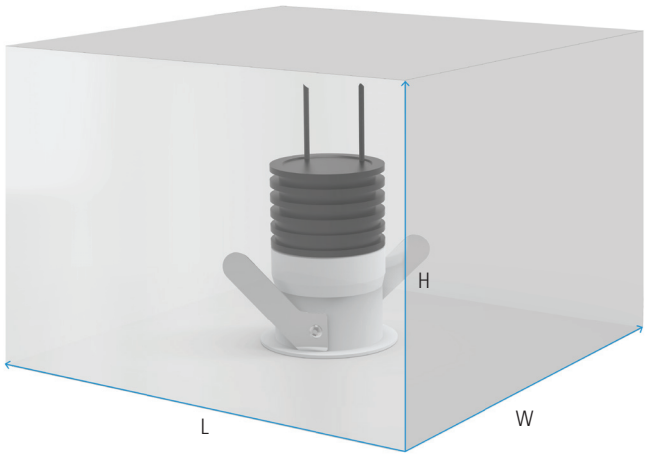
Medium Beam
700mA using a 28° optic

Distance (m)	Luminance (lx)	
0.5	0.25	00
1.0	0.51	00
1.5	0.76	00
2.0	1.01	00
2.5	1.27	00
3.0	1.52	00

Cone Width (m)

CEILING VOID REQUIREMENTS

Installation requirements can vary but the minimum installation volume requirements must be adhered to. The volume of air within the void ensures that the thermal performance of the product is not compromised and that proper cooling of the LED can take place. The minimum void height is 100mm.



E2 LED			
Output current	Minimum void dimension requirements (Lmm x Wmm x Hmm)	Minimum void volume	
		cm^3	Litre(s)
LD792-E2-350	200 x 200 x 70	2800cm^3	2.8
LD792-E2-500	200 x 200 x 100	4000cm^3	4

F1 LED			
Output current	Minimum void dimension requirements (Lmm x Wmm x Hmm)	Minimum void volume	
		cm^3	Litre(s)
LD792-F1-350	200 X 200 X 70	2800cm^3	2.8
LD792-F1-500			
LD792-F1-700	200 X 200 X 100	4000cm^3	4

ORDER CODES & OPTIONS

Example: LD792-E2-500 / LW30 / NB / WHITE / BLACK

Light Engine & Drive Current		LED Colour		Beam Angle		Bezel Finish		Inner Baffle Finish
LD792 -	/		/		/		/	

WHITE LED ENGINES

E2

5W LED at 350mA	LD792-E2-350
7W LED at 500mA	LD792-E2-500

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

10° Narrow spot	/NB
26° Medium	/MB

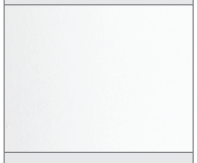
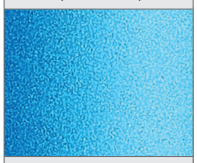
F1

3.5W LED at 350mA	LD792-F1-350
5W LED at 500mA	LD792-F1-500
7W LED at 700mA	LD792-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

21° Medium spot	/MSB
28° Medium	/MB

	White (RAL 9016)
	Black (RAL 9005)
	Silver Anodised
	Antique Bronze
	Satin Antique Brass
	Satin Brass
	Anthracite Grey (RAL 7016)
	RAL

	Matt Black (Standard)
	White (RAL 9016)
	Silver Anodised
	Antique Bronze
	Satin Antique Brass
	Satin Brass
	Anthracite Grey (RAL 7016)
	RAL

Drivers
Use with 350mA, 500mA & 700mA constant current LED drivers We have a wide range of LED drivers available. Please see the downloads section of our website.