LD70, LD70-OP & LD70D

350 mA | 500 mA | 700 mA | IP20
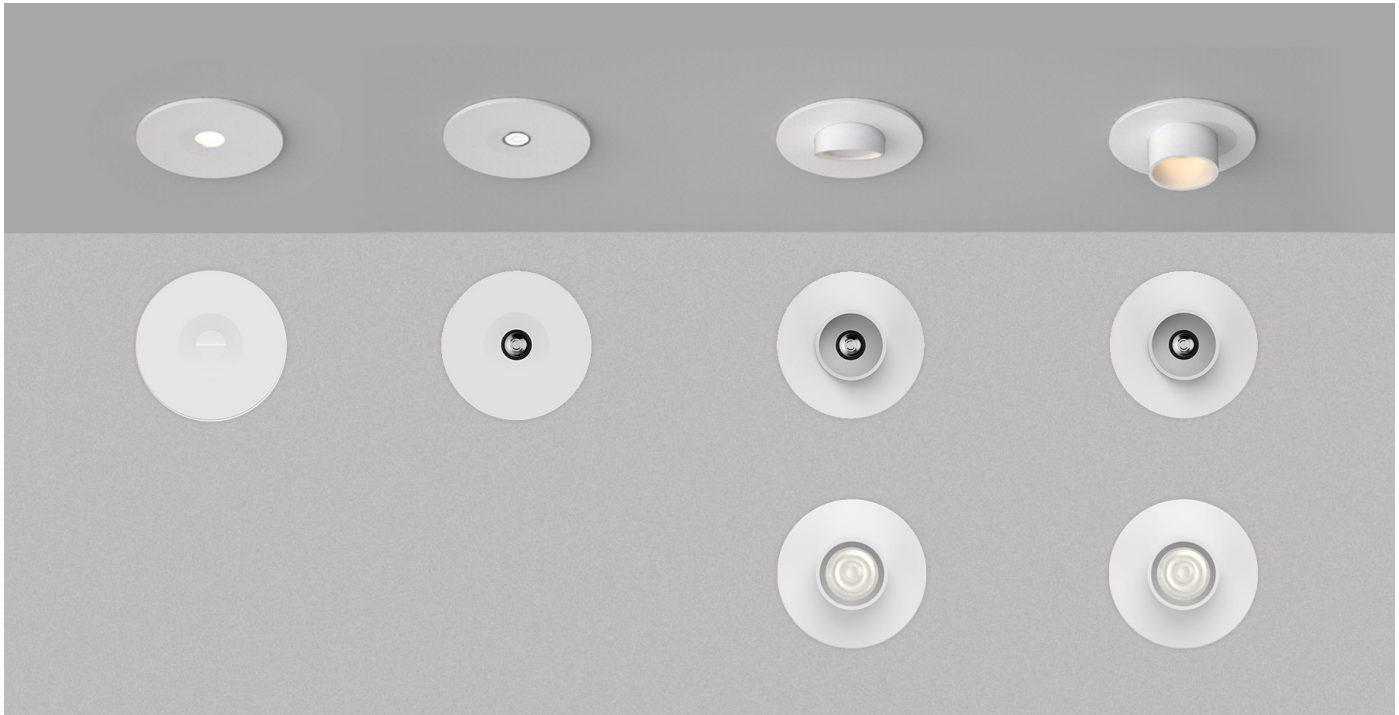
Ultra Shallow Recessed Shelf Light

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The LD70, LD70-OP and the LD70D range of light fittings is a series of extremely shallow recessed LED downlights. They feature minimal bezel thicknesses and are available with an optional half or fully cowled bezel to give optimal glare control, making them ideal for ultra discreet lighting in display cabinets or under shelving.

The LD70D is available with our standard narrow beam optic at a recess depth of 17mm, which allows for continuity with other LightGraphix products. Alternatively, where there is a requirement for an even shallower recess depth, the LD70 uses our new range of miniature optics and requires a recess depth of only 13mm. LD70-OP has an opal diffuser and no optic, creating a very wide, diffused spread of light.

Both LD70 + LD70D are available with half cowl (HC) & full cowl (FC) options.

Key Features

- Very minimal product depth, only 13mm void needed (17mm required if LD70D is specified)
- Ideal for shelf or under cabinet lighting
- Spring clips designed for solid cabinets / shelving
- Polarity protection on chip
- Can be mounted directly into surface without the need for a thermal void
- Optional half & full cowled bezels available for further glare control
- Interchangeable bezels
- Wide range of beam angles & optics suitable for all projects
- Minimal bezel thickness
- 93 CRI LED in warm white.
- Available with switched, 0-10V, DMX, DALI or Mains dimmable drivers

Specification

Applications

Beam Angles*   NB, MB, WB, SWB
LED type   Cree XPG2

Colour temperature	2700K*** / 3000K			5000K		
Drive Current (mA)	350	500	700	350	500	700
LED power** (W)	1.2W	1.7W	2.4W	1.2W	1.7W	2.4W
CRI (typical)	93	93	93	75	75	75
Forward voltage (V)$_{100}$	3.0V	3.2V	3.4V	3.0V	3.2V	3.4V
LD70-OP Delivered lumens(L$_{100}$)	42	51	64	51	62	78
Lumens per circuit watt	35	30	27	42	36	32
LD70 Delivered lumens(L$_{100}$)	93	114	150	113	139	182
Lumens per circuit watt	77	67	62	94	81	75
LD70D Delivered lumens(L$_{100}$)	128	151	200	130	182	242
Lumens per circuit watt	89	88	83	108	107	100

LED lifetime (to 70% lumen maintenance)	50,000hrs at a max ambient temperature of 35°C (if specifying fitting in ambient temperatures of up to 45°C run at 500mA max)
Materials	Aluminium body and bezel
Wiring	Comes pre-wired with flat 2-core 100mm lead, can be specified with up to 10m at extra cost
IP rating	IP20

* NB available only in LD70D, SWB available only in LD70-OP

**LED wattage includes losses associated with using an 85% efficient driver

***2700K lumen output is 12% lower than the 3000K figure listed
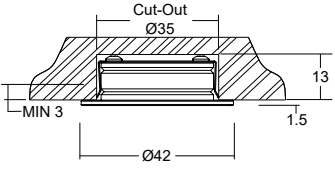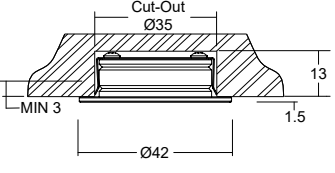   4000K lumen output is 14% higher than the 3000K figure listed (80 CRI)

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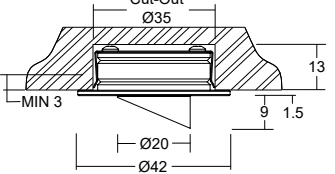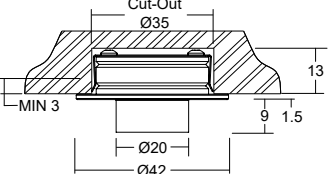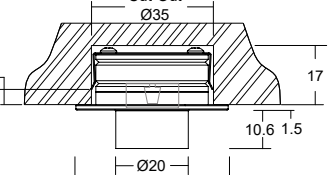
LD70, LD70-OP & LD70D
Ultra Shallow Recessed Shelf Light

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Comparision Guide

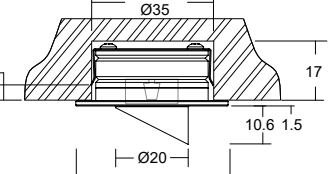|	Product Diagram	Void Recess Depth	Beam Angle	Drive Current	Narrow Beam Available
Opal Diffusion					
LD70-OP		13mm	120°	350mA, 500mA, 700mA	N
Lisa Micro Optics					
LD70		13mm	31°, 55°	350mA, 500mA, 700mA	N
LD70-HC		13mm	31°, 55°	350mA, 500mA, 700mA	N
LD70-FC		13mm	31°, 55°	350mA, 500mA, 700mA	N
Tina Mini Optics - Used in LD51 / LD56 / LD71					
LD70D-HC		17mm	12°, 31°, 48°	350mA, 500mA, 700mA	Y
LD70D-FC		17mm	12°, 31°, 48°	350mA, 500mA, 700mA	Y

*The Tina optic is the standard optic for all LightGraphix products that use the Cree XPG2 LED. It is recommended to use the LD70D if it is part of a project using a range of Lightgraphix products.

LD70, LD70-OP & LD70D
Ultra Shallow Recessed Shelf Light

350 mA   500 mA   700 mA   IP20   F

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Shallow Recessed Void
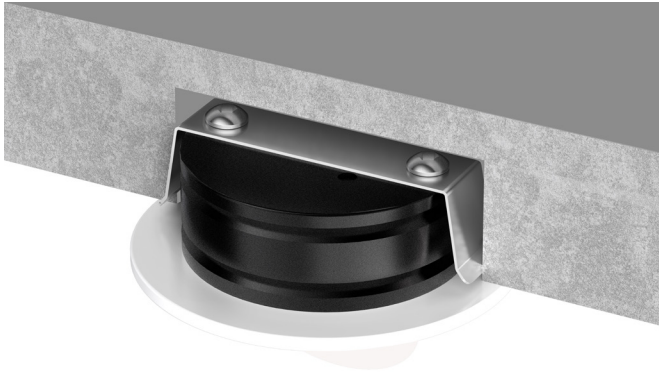
Finish Options

High quality machined bezel available in paint finish white (RAL 9016) / silver / black / RAL / antique bronze / satin antique brass. Other paint finishes available. Contact our sales team for further details.
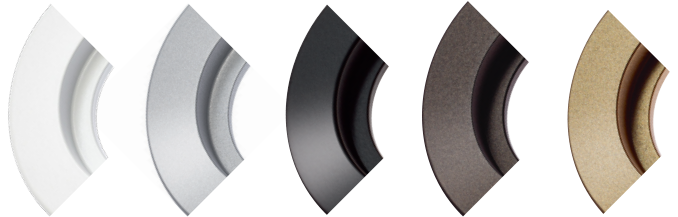
Product Family

LD70 LED Engine

Opal Diffuser
120°
SWB

LD70-OP

LD70 LED Engine

Lisa Micro Optic
31° / 55°
MB / WB

LD70-HC   **LD70**   **LD70-FC**

LD70 LED Engine

Tina Mini Optic
12° / 31° / 48°
NB / MB / WB

LD70D-HC   **LD70D-FC**

LD70-HC

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LD70, LD70-OP & LD70D
Ultra Shallow Recessed Shelf Light

350 mA | 500 mA | 700 mA | IP20 | F | III
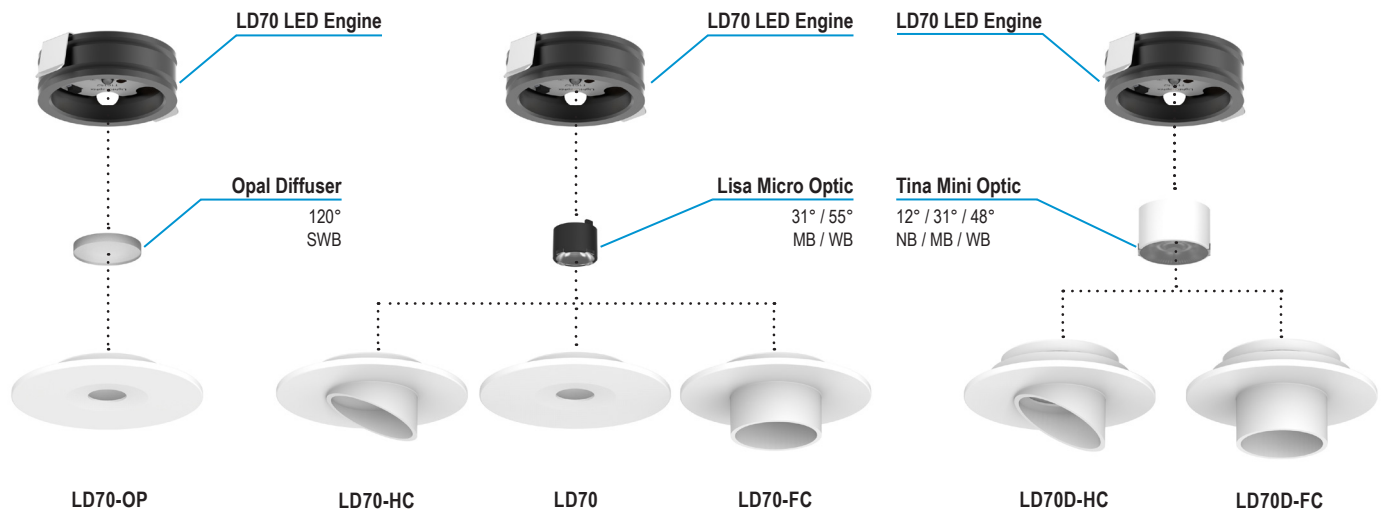
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LD70

Product code	LED colour	Lens angle	Bezel finish
LD70 - 350 - 500 - 700			

Example: LD70-350 / LW30 / MB / RAL 9001

Product codes with output options

350mA 1.2W	LD70-350 LD70HC-350 LD70FC-350	500mA 1.7W	LD70-500 LD70HC-500 LD70FC-500	700mA 2.4W	LD70-700 LD70HC-700 LD70FC-700

LED colour options

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

Beam / lens angle options

30° Medium	/MB
55° Wide	/WB

Finish options

Bezel - paint finish white (RAL 9016) / silver / black / RAL / antique bronze / antique brass

See our finishes guide for more detailed information on available finishes

Driver requirements - See LD70-OP table for driver information

LD70-OP

Product code	LED colour	Bezel finish
LD70-OP - 350 - 500 - 700		

Example: LD70-OP-350 / LW30 / RAL 9001

Product codes with output options

350mA 1.2W	LD70-OP-350	500mA 1.7W	LD70-OP-500	700mA 2.4W	LD70-OP-700

LED colour options

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

Finish options

Bezel - paint finish white (RAL 9016) / silver / black / RAL / antique bronze / antique brass

See our finishes guide for more detailed information on available finishes

Use with 350mA, 500mA and 700mA constant current LED drivers

We have a wide range of dimmable LED drivers, 0-10V, DMX, DALI and Mains dimmable.
Please see the downloads section on our website:
To run 1-14 LD70**-350 in series use a TXDEL350D (0-10V dimmable)
To run 1-14 LD70**-500 in series use a TXDEL500D (0-10V dimmable)
To run 1-13 LD70**-700 in series use a TXDEL700D (0-10V dimmable)

LD70D

Product code	LED colour	Lens angle	Bezel finish
LD70D - 350 - 500 - 700			

Example: LD70D-350 / LW30 / MB / RAL 9001

Product codes with output options

350mA 1.2W	LD70D-HC-350 LD70D-FC-350	500mA 1.7W	LD70D-HC-500 LD70D-FC-500	700mA 2.4W	LD70D-HC-700 LD70D-FC-700

LED colour options

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

Beam / lens angle options

12° Narrow Spot	/NB
31° Medium	/MB
48° Wide	/WB

Finish options

Bezel - paint finish white (RAL 9016) / silver / black / RAL / antique bronze / antique brass

See our finishes guide for more detailed information on available finishes

Driver requirements - See LD70-OP table for driver information

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