

Downlights

Things to Know

Due to their unobtrusive nature downlights are the most popular kind of light fittings for today's residential and commercial fit outs. They are relatively inexpensive but more downlights are required to light a given area compared to ceiling lights or pendants.

Characteristics of Downlights

- Downlights do not light the ceiling this can create a cosy effect.
- Can save on building costs as the ceiling doesn't require as much finishing.
- More light fittings will need to be installed compared with ceiling buttons and pendants.
- Downlights have to be placed close enough to the wall so as to light it or be used in conjunction with wall lights, otherwise dark walls make the room look smaller.

Downlights can be used to deliver a lot of light onto horizontal surfaces such as tables and work tops and adjustable types are available to highlight pictures and other items of interest.

For Uniform Lighting SHR can be used as a Guide

Max SHR (spacing to height ratio)

Take **SHR** and x by your ceiling height e.g.: 2.4m ceiling x 0.8 **SHR** = 1.9 metre spacing of downlights this gives even illuminance. If higher illuminance is required space closer together

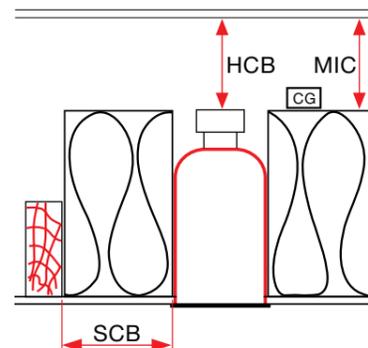
Electrical Codes of Practise and Wiring Rules

Not all downlights are suitable for use in all ceilings; it is wise to use an electrician who has the ECP's and knowledge about downlight design suitability. Safety, especially fire safety, can be a big problem if wrongly installed.

Downlights depending on their design are subject to where they may be positioned in a ceiling. Not all ceiling cavities are appropriate for downlight installation due to fire safety and or lamp life issues. Also if building insulation is already present this may dictate what type of downlight is allowed to be installed.

Downlight Clearances from Building Elements:

SCB	Side clearance to building elements
HCB	Height clearance to building elements
SCI	Side clearance to building insulation
MIC	Minimum clearance above building insulation for ventilation
Insulation type	Class markings and Manufacturers specifications dictate what type of insulation is safe for each class of downlight



Product Featured:
SDF95 & SD125F



'We recognise that time is money, and ensure that our designs are easy to install and that our installation instructions are clear and simple to follow'

we engineer light.....

Superlux **Models SVE75** and **SVE90** downlights use heat sink systems to ensure ceilings do not exceed 90°C. We also manufacture the patented **CA Coils** for Superlux Halogen Packs; these are essentially a ventilated enclosure preventing contact with the back of lamp while allowing heat to escape.

Superlux products are uniquely designed to take 50W lamps.

The Superlux fixed halogen downlights (unlike other brands) comply with ceiling temperature standards, through flange ventilation, heat sink systems and a purpose-made 50W transformer.

Future Proof Lighting

Purpose designed Fluorescent downlights

Superlux have a range of energy efficient downlights specifically designed for energy saver lamp technologies, such as our **SD125F** which produces 100watt illuminance from only 15Watts and our new slim line **SDF95** downlights with 35 watt equivalence from only 7watts.

LED Options

Superlux are introducing a 13Watt **LED** downlight with a similar output to a 50Watt halogen model: **LDL75**. A 35 Watt equivalent light output 5Watt **LED MR16** lamp is available and runs in the **SVE90** and **SVE Kit Set** models.