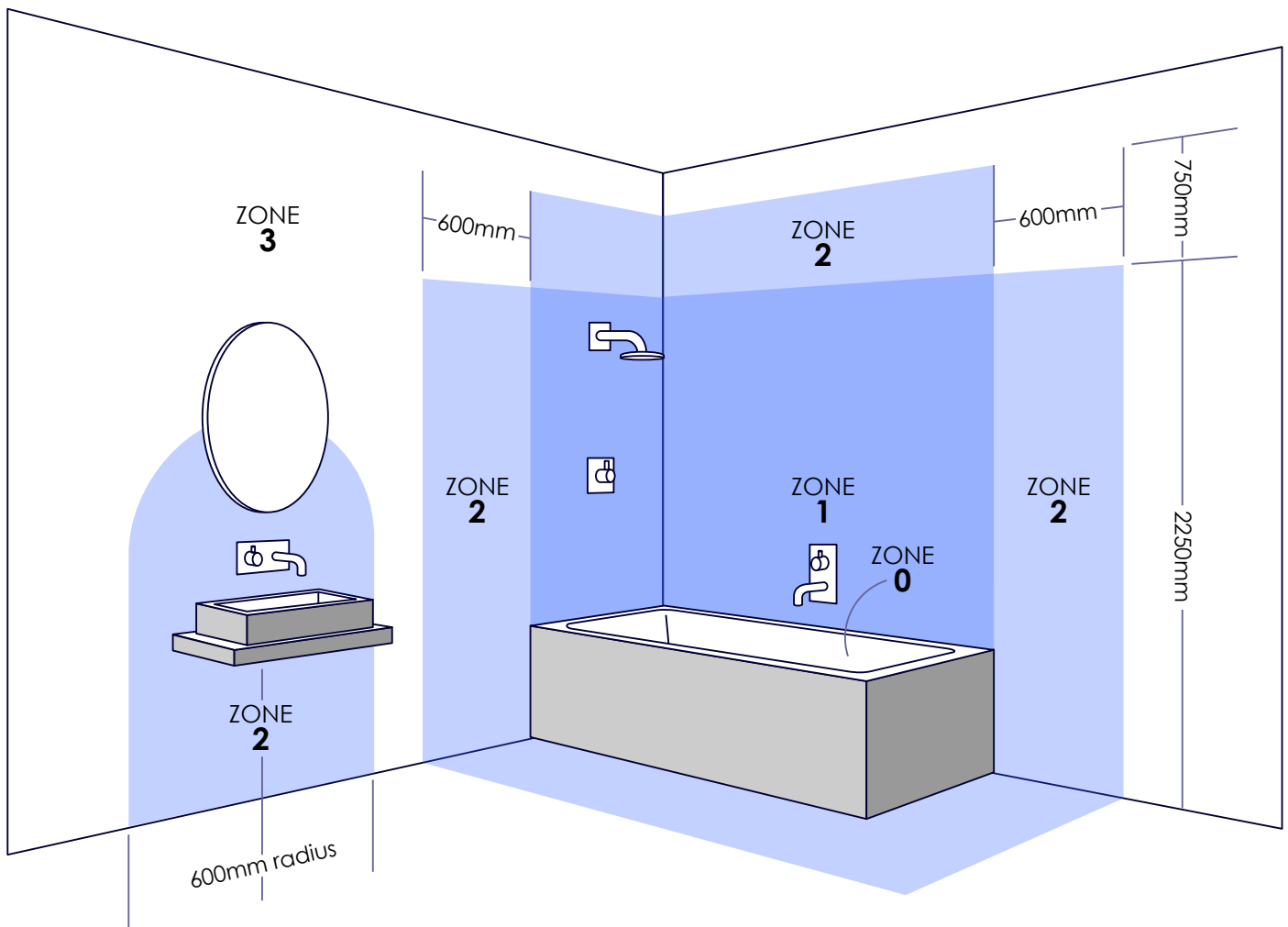


ZONE	IP RATING	DESCRIPTION
0	IP [X] 7	Inside the bath or shower. All fittings must be SELV - maximum 12V.
1	IP [X] 4*	Above the bath or shower to a height of 2.25m.
2	IP [X] 4*	An area of 600mm around the bath or shower. A radius of 600mm around the basin.
3	n/a*	Where water jets are not being used, the general rules of BS7671 apply.

All final circuits should have 30mA RCD (residual current device) protection.

\* For all zones - if there is a likelihood of water jets being used for cleaning purposes or via direct contact from the shower or hose, a minimum rating of IP [X] 5 is required.



All installations must comply to guidelines based on a zonal concept. The diagram above illustrates this concept and must be followed to ensure the safe installation of bathroom lighting. These regulations apply to domestic installations only. Installations must be made in accordance with the current IEE wiring regulations and relevant building regulations.

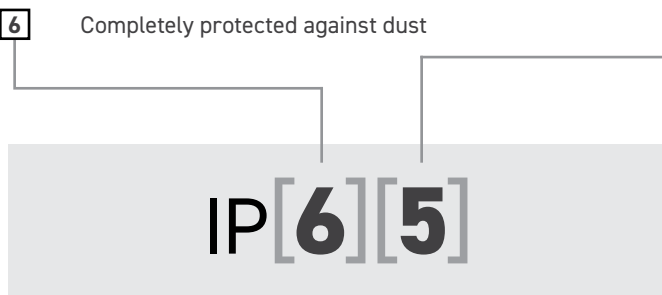
## IP RATINGS EXPLAINED

### IP[X]\_

0	Unprotected
1	Protected from objects bigger than 50mm Ø
2	Protected from objects bigger than 12,5mm Ø
3	Protected from objects bigger than 2,5mm Ø
4	Protected from objects bigger than 1mm Ø
5	Protected against dust
6	Completely protected against dust

### IP\_[X]

0	Unprotected
1	Protected against vertically falling water drops
2	Protected against drops of water falling up to 15° from the vertical
3	Protected against water sprayed at an angle up to 60° on either side of the vertical
4	Protected against water sprayed against the component from any direction
5	Protected against water projected in jets from any direction
6	Protected against water projected in powerful jets from any direction
7	Protected against temporary immersion in water
8	Protected against prolonged immersion in water



## WHAT ARE IP RATINGS?

IP is an abbreviation for 'Ingress Protection'.

IP ratings are issued following a stringent testing procedure and protection against ingress is measured from digits to dust and water.

## COMMON LIGHTING IP RATINGS

- IP20:** Not protected against water or dust - not suitable for bathrooms or wet environments.
- IP44:** Protected against splashes of water from any direction. Suitable for Zone 2 and outside zones.
- IP65:** Protected against low-pressure jets of water in any direction. Suitable for Zone 1 and 2.
- IP67:** Protected against immersion in water up to 1m for up to 30 minutes. Suitable for Zone 0.
- IP68:** Protected against prolonged immersion in water, such as swimming pools and ponds. Suitable for Zone 0.

## DISCLAIMER

In the event of damage occurring as a result of incorrect installation, Darklight Design regrets that we are unable to offer an exchange or refund. It is the installer's responsibility to ensure that all equipment is installed correctly and in accordance with the specification, supplemented by the manufacturer's information. We know you get it - thanks for bearing with us here.

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