PRODUCT MANUAL

Cold Room Lamp

Model: RSR-8/10/12W; RSQ-20/35/46/54W



CATEGORY	MODEL	ISSUE DATE
Cold Room Fans, Lamps & Heaters	**RSR-8/10/12W; RSQ-20/35/46/54W**	**2026-11-22**

1. Product Overview

A cold room light has to do two things a normal fixture cannot: survive at low temperature and stay sealed against condensation. A standard fixture in a freezer corrodes at the terminals within months, and moisture inside the diffuser freezes and then cracks it.

The range covers both technologies. The RSR models (8 W, 10 W and 12 W) are fluorescent fixtures with a 36 W equivalent output. The RSQ models (20 W, 35 W, 46 W and 54 W) are LED, and these are the versions normally specified now: LED reaches full output immediately at low temperature, where a fluorescent tube is dim for the first minutes and starts poorly below -20 C.

All versions run on 110 to 220 V at 50/60 Hz, are rated IP65, operate from -40 C to +50 C with a 10,000 hour life, and are available in colour temperatures from 2700 K to 7000 K. The 20 W fixture measures 180 x 180 x 55 mm; the 35, 46 and 54 W units share a 230 x 230 x 63 mm body.

Selection is by room volume and by mounting height: the 20 W unit suits small reach-in rooms and door surrounds, while the larger sizes light a walk-in or a preparation area. IP65 is the minimum for a cold room - anything less will take in water during washdown.

Installation: mount on the ceiling or high on the wall so the fixture is out of the way of trolleys, keep the cable entry pointing down where possible, and check the gland is tight. Because these operate at -40 C, use a cable rated for the temperature; ordinary PVC cable becomes brittle in a freezer and cracks at the gland.

2. Key Features

- Waterproof IP65 cold room light with vapour-tight housing
- Fluorescent and LED versions, 8W to 54W
- Operating range -40 °C to +50 °C, 10,000 hour life

3. Technical Specifications

Item	Specification
Model range	RSR-8W/10W/12W (fluorescent); RSQ-20W/35W/46W/54W (LED)
Power	8 / 10 / 12 W actual (36 W equivalent) for RSR; 20 / 35 / 46 / 54 W for RSQ
Supply voltage	110 – 220 V, 50/60 Hz
Input frequency	50 / 60 Hz
Colour temperature	2700 – 7000 K
Protection class	IP65
Operating temperature	-40 ~ +50 °C
Lifetime	10,000 hours

Item	Specification
Product size	180×180×55 mm (20W); 230×230×63 mm (35W/46W/54W)

4. Commercial Terms

MINIMUM ORDER
Negotiable

LEAD TIME
Negotiable

SHIPPING PORT
Shanghai / Ningbo, China

PLACE OF ORIGIN
China

PAYMENT TERMS
T/T, L/C

SUPPLY ABILITY
Negotiable

Contact us for a free quotation

Our engineering team replies within 24 hours with selection advice and an FOB / CIF quotation.

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