



Fraunhofer

TESTED[®] DEVICE

THORN Lighting Limited
INV (INVINCIBLE RECESSED)
Report No. TH 2505-1629

Product series
**Particle Emission
in Cleanroom
(atmospheric)**

Qualification Certificate

This is to certify that the product mentioned above, provided by

THORN Lighting Limited
Durham, United Kingdom

has been awarded a Fraunhofer certificate TESTED DEVICE
bearing the report number TH 2505-1629.

The luminaire series INV (INVINCIBLE RECESSED) (color:
white) was assessed in compliance with ISO 14644-14. When
operated under the specified test conditions (room temperature:
 $22^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$; relative humidity: $45\% \pm 5\%$), it is suitable for
use in cleanrooms fulfilling the specifications of the following Air
Cleanliness Class according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
Structure-borne noise = approx. 50Hz	1
Overall result	

It should be noted that cleanrooms of Class 1 to 5 according to
ISO 14644-1 have a higher filter occupancy, which may restrict
the use of panel lighting systems. Cleanrooms with a horizontal
displacement flow form an exception to this. The test result may
be affected by the surrounding ceiling system.
Please note: Transport damages, incorrect installation, aging
behavior, corrosion etc. can influence the test result.

TH 2505-1629
Report No. first document

Stuttgart, June 6, 2025
Place, date of first document issued

--
Report No. current document

--
Place, current date

on behalf of 
Dr.-Ing. Frank Brger, head of business unit Testing and Certification

This document only
applies to the named
product in its original state
and is valid for a period of
5 years from the date the
first document was issued.
The document can be
verified under
www.tested-device.com.

Detailed information and
parameters of the test
environment can be found
in the Fraunhofer IPA test
report.