



liteServer® Ex.mini

Illumination tests

Eleonore Adit in Asslar

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1 Introduction

This document contains the results of the measurements regarding illumination distances of the liteServer Ex.mini. Images were taken with an IPM1137 at the Eleonore adit in Asslar/Hesse. The results are presented as pictures and can be used as reference.

2 Test set-up

For the test, the **liteserver Ex.mini** was used. The object distance was set at 1.0 m, 3.0 m, 5.0 m, 10.0 m, 30.0 m. The illumination was tested with white light illumination.

The complete picture documentation is accessible at [ET20-AUSLEUCHTUNGSMESSUNGEN-Ausleuchtungstests Aßlar Eleonore Stollen \(01.07.2025\)](#).

The **liteServer Ex.mini.24.WL T20-VA1.2.K1.BOR-LL.N-005.2-K** was used as the external light sources.



Figure 2-1: Test setup

3 Results

In the following table the measured lux values when illuminated with Ex.micro WL:

Distance [m]	1	3	5	10	20	30	40	50	70
Light intensity [lx]	480	70	27	7	1,7	0,72	0,4	0,25	0,12

Tab. 3-1: Results of the lux measurement

Below, a comparison of the individual pictures is shown:

TELE



1m



3m



5m



10m





20m



30m



50m



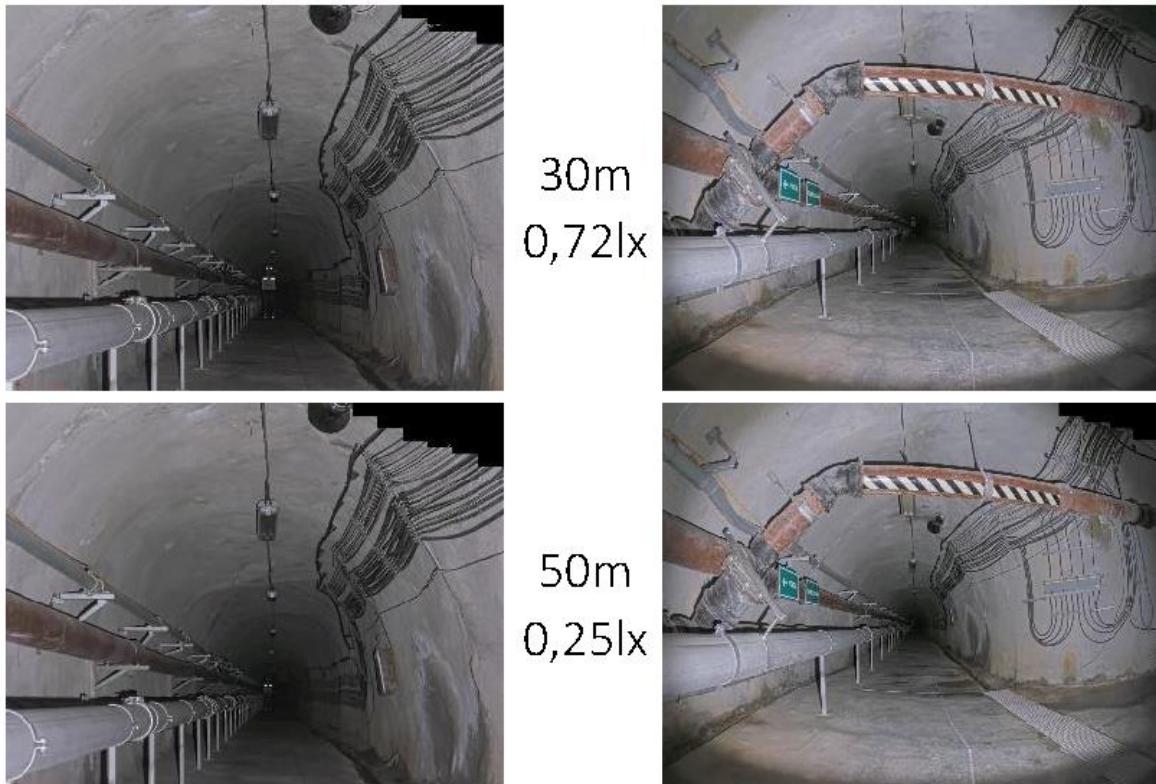
Tab. 3-2: Results ExCam IPM1137 with liteServer Ex.mini coloured object

TELE

1m
480lx3m
70lx5m
27lx10m
7lx

WIDE





Tab. 3-3: Results illumination WL

4 Conclusion

The external illumination in combination with the IPM1137 ensures a clear image up to an object distance of 30.0 m. Even at a distance of 60 m, the light intensity is sufficient to detect an object in the field of view. The liteServer Ex.mini has a greater light intensity at close range than the Ex.micro. However, from a distance of 30 m, the brightness of both the liteServer Ex.mini and Ex.micro is identical. The larger light, however, has a wider illumination angle.