

ROBIN LEDBeam 350

Noise Measurement



Date of measurements : 15.3.2021 Temperature / humidity : 20°C / 45 % r.h.

Testing method : EN ISO 9614-1 Acoustics - Determination of **sound power levels** of noise sources
using sound intensity - Part 1: Measurement at discrete points

Testing equipment : Analyzer Brüel & Kjær 2270
Sound intensity probe Brüel & Kjær 3654

1. Sound power levels [dB(A)] - measurement

| [dB(A)] | Settings A)* | Settings B)* | Settings C)* |
|--------------|--------------|--------------|--------------|
| 63 Hz | - | - | 13 |
| 125 Hz | - | 4 | 13 |
| 250 Hz | 29 | 30 | 39 |
| 500 Hz | 35 | 37 | 51 |
| 1 kHz | 34 | 38 | 53 |
| 2 kHz | 29 | 33 | 51 |
| 4 kHz | 20 | 23 | 43 |
| 8 kHz | 25 | 23 | 37 |
| | | | |
| Total | 39 | 42 | 57 |

- ... *unmeasurable value*

A)* .. Fans mode: Quiet, 100% dimmer, static position, without effects

B)* .. Fans mode: Auto, 100% dimmer, static position, without effects

C)* .. Fans mode: High, 100% dimmer, static position, without effects

2. Sound pressure levels [dB(A)] – determination

$$L_p = L_w + 10 \log \left(\frac{Q}{4\pi r^2} \right)$$

Q = 2

| [distance (m)] | Settings A)* | Settings B)* | Settings C)* |
|----------------|--------------|--------------|--------------|
| 1 | 31 | 34 | 49 |
| 3 | 22 | 24 | 39 |
| 5 | 17 | 20 | 35 |
| 8 | 13 | 16 | 31 |
| 10 | 11 | 14 | 29 |

A)* .. Fans mode: Quiet, 100% dimmer, static position, without effects

B)* .. Fans mode: Auto, 100% dimmer, static position, without effects

C)* .. Fans mode: High, 100% dimmer, static position, without effects

Test results apply only to the tested specimen.

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