

# ROBIN Esprite

## Noise Measurement



Date of measurements : 20.5.2021    Temperature / humidity : 20,1 °C / 31 % 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)*	Settings D)*
63 Hz	-	10	10	10
125 Hz	11	26	31	31
250 Hz	23	37	43	43
500 Hz	28	47	55	55
1 kHz	27	44	52	52
2 kHz	31	43	51	51
4 kHz	24	34	44	44
8 kHz	20	25	36	36
<b>Total</b>	<b>35</b>	<b>50</b>	<b>58</b>	<b>58</b>

- ... *unmeasurable value*

A)\* .. Quiet mode, 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

D)\* .. High-power mode On, 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)*	Settings D)*
1	27	42	50	50
3	17	32	40	40
5	13	28	36	36
8	9	24	32	32
10	7	22	30	30

A)\* .. Quiet mode, 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

D)\* .. High-power mode On, 100% dimmer, static position, without effects

Test results apply only to the tested specimen.

Copyright © 2021 Robe Lighting s.r.o. – All rights reserved.  
All specifications subjects to change without notice

**ROBE**