

ACOUSTIC TEST REPORT BRIGHTER LUMO IP

Test conditions:

Test carried out according to ISO 3744:2011

Device tested:

Make: Brighter Lighting SP. Z O.O.

Model: Brighter Lumo IP

Setup:

The product was placed in anechoic chamber at IEN-BIP OL ITC (volume 350m³) in Łódź, Poland. The measurements were performed by IEN staff:

- mgr. inż. Kamil Wójciak
- mgr. inż. Patryk Gaj
- dr inż. Joanna Kopania

The product was allowed a minimum 20 minutes of warm-up time before measurements were performed

Test equipment list:

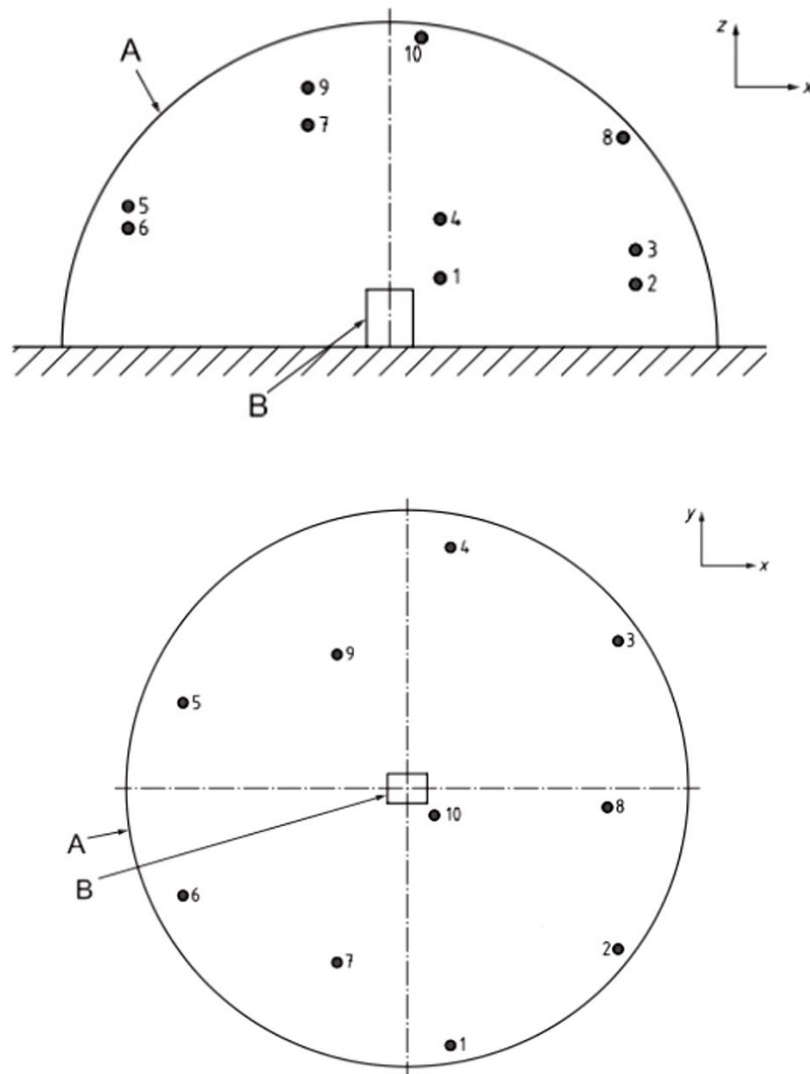
Type	Manufacturer	Serial number
Nor140	Norsonic	1407332
Nor1225	Norsonic	358181
Nor1209	Norsonic	21954
Nor1256	Norsonic	125626714
HD 9908T	Delta OHM	125626714
HD 2717T.D0	Delta OHM	11032846
30m	Richter	2134

Environment:

	Anechoic chamber	
Chamber volume	350	m ³
Measuring radius	1,00	m
Measurement surface area	6,3	m ²
10 log ₁₀ (s/s ₀)	8,0	-
Calibration of the measurement path	-25,7	dB
Temperature	17,9	°C
Humidity	48,8	%
Air pressure	988	hPa

Measurement method:

Measurements were performed using a setup with one microphone. The microphone was in turn moved to the measurement positions described below



A - measurement surface

B – reference box

Results:

The Lumo Ip was measured in below 2 different modes:

1. All effects static, Light source on, 100% output white light, Fan mode Auto
2. All effects static, Light source on, 100% output white light, Fan mode Silent

Measured sound pressure levels results are shown below:

Distance from fixture [m]	Fan Auto [dB]	Fan Silent [dB]
LpA at 1m	51,0	14,9
LpA at 2m	45,0	8,9
LpA at 3m	41,5	5,4
LpA at 5m	37,0	0,9
LpA at 10m	31,0	-5,1

The duration of the acoustical measurement for each position is 10s.