

## ACOUSTIC TEST REPORT BRIGHTER X-PROFILE IP

### Test conditions:

Test carried out according to ISO 3744:2011

### Device tested:

Make: Brighter Lighting SP. Z O.O.

Model: Brighter X-Profile IP

### Setup:

The product was placed in anechoic chamber at IEN-BIP OL ITC (volume 350m<sup>3</sup>) in Łódź, Poland. The measurements were performed by IEN staff:

- mgr. inż. Kamil Wójciak
- mgr. inż. Patryk Gaj
- mgr. Marcel Czarnecki

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

### Test equipment list:

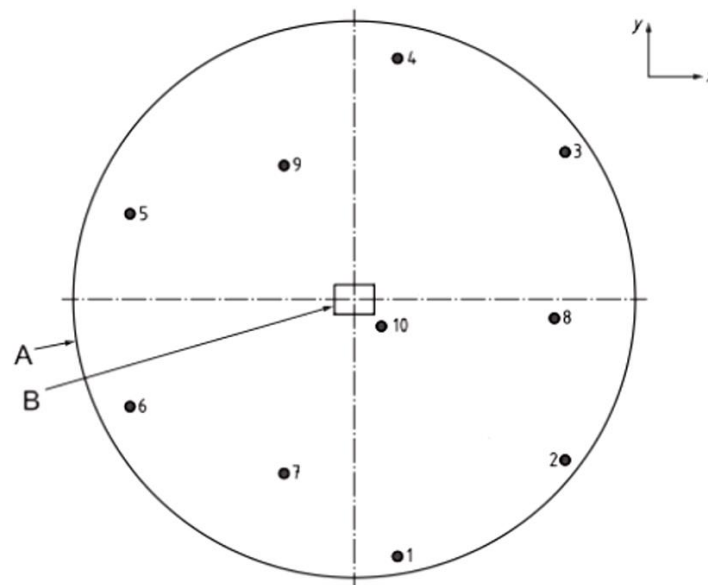
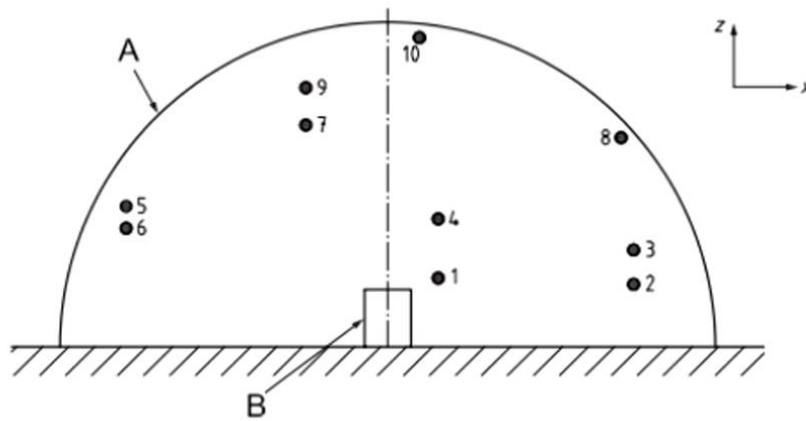
Type	Manufacturer	Serial number
Nor140	Norsonic	1407332
Nor1225	Norsonic	358181
Nor1209	Norsonic	21954
Nor1256	Norsonic	125626714
HD 9908T	Delta OHM	125626714
HD 2717T.D0	Delta OHM	11032846
30m	Richter	2134

### Environment:

	Anechoic chamber	
Chamber volume	350	m <sup>3</sup>
Measuring radius	1,00	m
Measurement surface area	6,3	m <sup>2</sup>
10 log <sub>10</sub> (s/s <sub>0</sub> )	8,0	-
Calibration of the measurement path	-25,6	dB
Temperature	15,4	°C
Humidity	52,9	%
Air pressure	997	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 X-Profiel IP was measured in below 4 different modes:

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

Measured sound pressure levels results are shown below:

Distance from fixture [m]	Fan Ultra Silent [dB]	Fan Silent [dB]	Fan Auto [dB]	Fan Full [dB]
LpA at 1m	35,9	42,0	50,3	59,5
LpA at 2m	29,9	36,0	44,3	53,5
LpA at 3m	26,4	32,5	40,8	50,0
LpA at 5m	21,9	28,0	36,3	45,5
LpA at 10m	15,9	22,0	30,3	39,5

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