ACOUSTIC TEST REPORT

BRIGHTER X-DOT MAX IP

Test conditions:

Test carried out according to ISO 3744:2011

Device tested:

Make: Brighter Lighting SP. Z O.O.

Model: Brighter X-Dot Max IP

Setup:

The product was placed in anechoic chamber at IEN-BIP OL ITC (volume 350m^3) 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
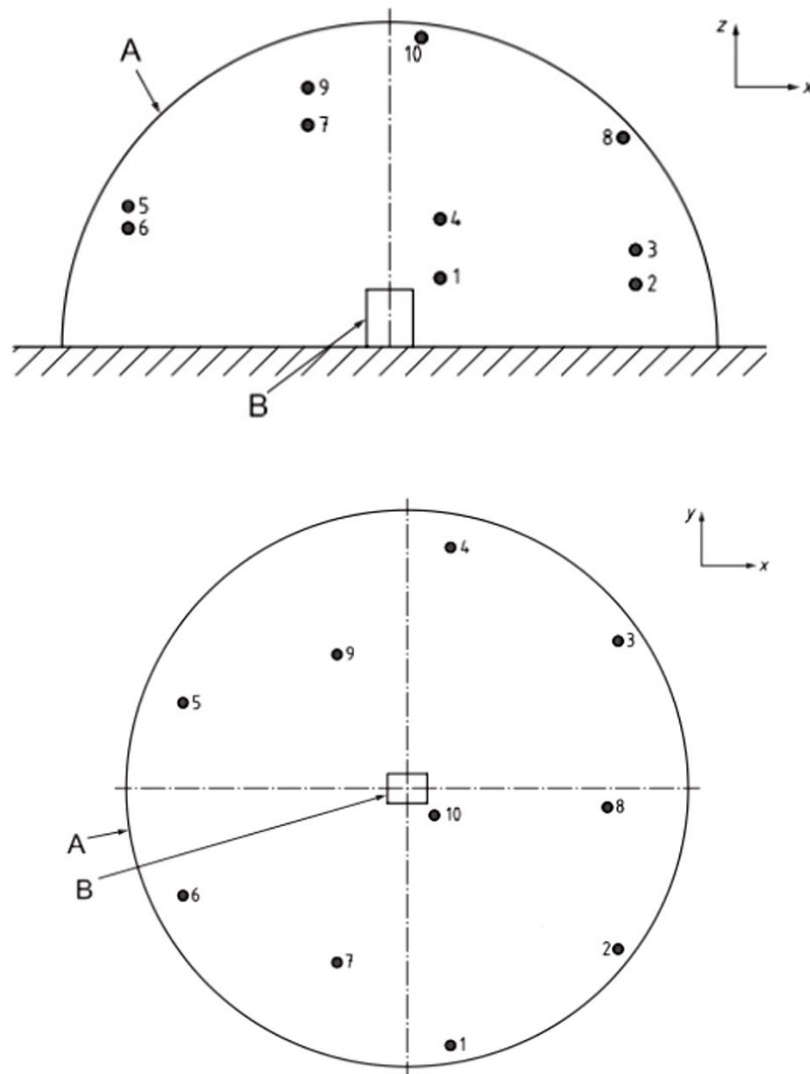
Test equipment list:

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	17,3	°C
Humidity	50,6	%
Air pressure	988	hPa

ACOUSTIC TEST REPORT

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-Dot Max 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	51,2	34,9
LpA at 2m	45,2	28,9
LpA at 3m	41,7	25,4
LpA at 5m	37,2	20,9
LpA at 10m	31,2	14,9

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

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