



## TEST REPORT/检测报告

**Name of sample....** : In-ceiling speaker

样品名称 天花板喇叭

**Client.....** : Cloud Electronics Limited

申请商

**Address.....** : 140 Staniforth Road Sheffield, S9 3HF. UK

申请商地址

**Brand Name.....** : Cloud

商标

**Manufacture.....** : Cloud Electronics Limited

制造商

**Address.....** : 140 Staniforth Road Sheffield, S9 3HF. UK

制造商地址

**Factory.....** Innovative Audio Intl Co., Ltd

工厂 惠州市创响音响制品有限公司

**Address.....** 5th Road, 4th District, Lilin Square, Lilin Town, Huizhou

工厂地址 City, Guangdong Province, China, 516035

惠州市仲恺高新区沥林镇沥林文化广场 4 区 5 路厂房

**Classification.....** : Commission Test

检验类别 委托检测

**Test item.....** : Dustproof and Waterproof Test (IP56)

检测项目 防尘防水测试 (IP56)



Testing Lab.  
Shenzhen Southern LCS Compliance Testing  
Laboratory Ltd.

Add: 101-201, No.39 Buliding, Xialang Industrial Zone,  
Heshuikou Community, Matian Street, Guangming District,  
Shenzhen, China  
Tel: 0755-29871520 Fax: 0755-29871521  
Http: www.lcs-cert.com E-mail: webmaster@LCS-cert.com

REPORT NO.: LCS200506004BS

## Test Report/检测报告

Name of sample 样品名称	: In-ceiling speaker 天花板喇叭	Report No. 报告编号	: LCS200506004BS
Client 申请商	: Cloud Electronics Limited		
Address of client 申请商地址	: 140 Staniforth Road Sheffield, S9 3HF. UK		
Brand name 商标	: Cloud		
Inspection Classification 检测类型	: Commission Test 委托检测	Test date 测试日期	: 2020-05-09~ 2020-05-11
Date of Issue 报告日期	: 2020-05-11		
Testing Laboratory 测试实验室	: Shenzhen Southern LCS Compliance Testing Laboratory Ltd. 深圳南方立讯检测有限公司		
Address 测试实验室地址	: 101-201, No.39 Buliding, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China 深圳市光明区马田街道合水口社区下朗工业区第三十九栋 101-201		
Test models 检测型号	: CS-C4HW, CS-C4HB, CS-C6W, CS-C6B		
Main test model/ 主测型号	: CS-C4HW		
Test standard 测试标准	: IEC 60529:1989+A1:1999+A2:2013 GB 4208-2017		
Rating of sample 样品参数	: 13V, 100Hz-20KHz, 20W		
Sample characteristic and condition 样品特征及条件	: The sample was in good condition operation as normally 样品完好		
Test result 测试结果	: Measured data see report attached 测试数据见附件		
Ambient temperature 环境温度	: 25.0°C	Relative humidity 环境湿度	: 65.0%RH
Test by 测试	: Ray Hui		
Check by 审核	: Yeoh Zhang		
Approved by 批准	: Jesse Liu		
Remark: N/A			



## Attachment of report – Data

Item 序号	Test Item 测试项目	Standard Requirement 测试要求	Result 测试结果	Verdict 判定
1	Dustproof test 防尘试验 (IP5X)	<p>a. Square-meshed sieve diameter: 75µm; b. Talcum powder density: 2kg/m<sup>3</sup>; c. Test time: 8h; After test, if no deposit of dust is inside the enclosure, test is pass.</p> <p>1. 筛网孔径: 75µm; 2. 粉尘密度: 2kg/m<sup>3</sup>; 3. 试验时间: 8h; 试验后, 检查样品有无进尘现象。</p>	<p>No ingress of dust is inside the enclosure 无进尘</p>	<p>Pass 符合</p>
2	Waterproof test 防水试验 (IPX6)	<p>a. Internal diameter of the nozzle: 12.5mm; b. Delivery rate: 100(1±5%)L/min; c. Water pressure: to be adjusted to achieve the specified delivery rate; d. Core of the substantial stream: circle of approximately 120mm diameter at 2.5 distance form nozzle; e. Test duration per square meter of enclosure surface area likely to be sprayed:1 min; f. Minimum test duration: 3min; g. Distance from nozzle to enclosure surface: between 2.5m and 3m. After test, the enclosure shall be inspected for ingress of water.</p> <p>1. 喷嘴内径: 12.5mm; 2. 水流量: 100L/min; 3. 水压: 按规定水流量调节; 4. 主水流的中心部分: 离喷嘴 2.5m 处直径约为 120mm 的圆; 5. 外壳表面每平方米喷水时间: 约 1min; 6. 试验时间: 最少 3min; 7. 喷嘴至外壳表面距离: 2.5~3m; 试验后, 检查样品无进水现象。</p>	<p>No ingress of water is inside the enclosure 无进水</p>	<p>Pass 符合</p>

## Equipment list



*Testing Lab.*  
Shenzhen Southern LCS Compliance Testing  
Laboratory Ltd.

Add: 101-201, No.39 Buliding, Xialang Industrial Zone,  
Heshuikou Community, Matian Street, Guangming District,  
Shenzhen, China

Tel: 0755-29871520

Http: [www.lcs-cert.com](http://www.lcs-cert.com)

Fax: 0755-29871521

E-mail: [webmaster@LCS-cert.com](mailto:webmaster@LCS-cert.com)

---

REPORT NO.: LCS200506004BS

ID Number	Instrument	Model/ Type	Calibration Date
SLCS-S-031	Sand and dust test box	SG-500	2019-05-16
SLCS-S-034	IPX5, IPX6 waterproof equipment	X6	2019-07-05
SLCS-S-135	Digital hygrometer thermometer	HTC-1	2019-07-03
SLCS-S-148	Air compressor	OTS-800	/



## Attachment of report – Photo

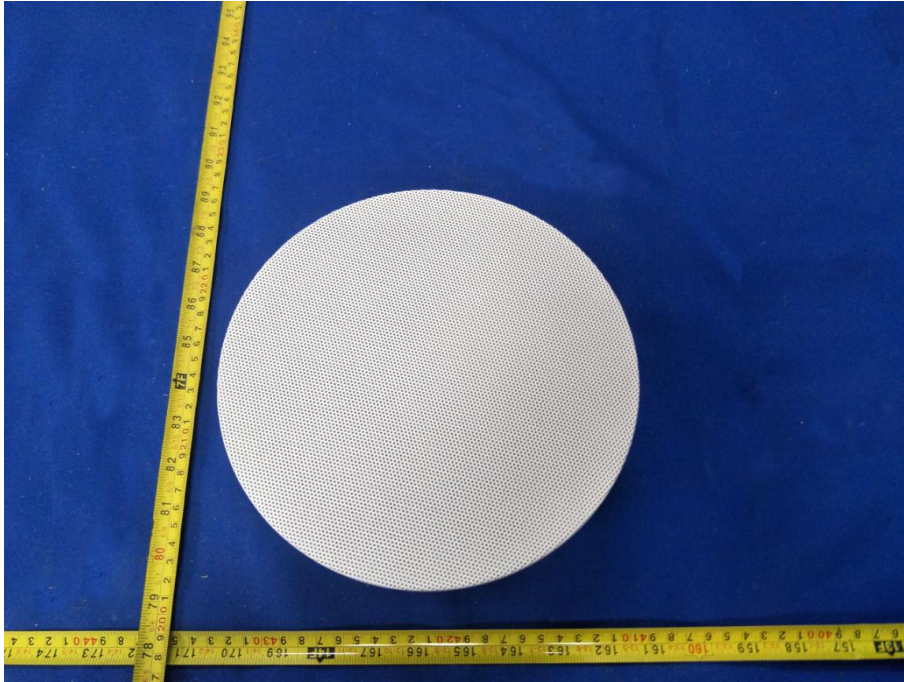


Fig. 1 Product Picture /样品照片



Fig. 2 The Dustproof Test /防尘测试





## Attachment of report – Photo



Fig. 3 The Waterproof Test /防水测试

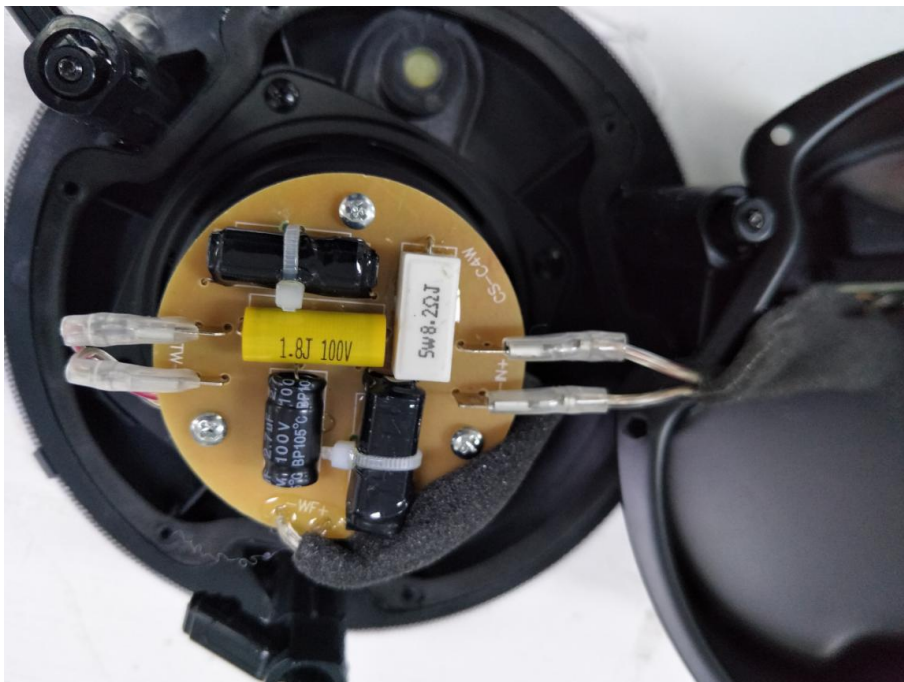


Fig. 4 After the Test /测试后

-----END OF REPORT-----