

## TEST REPORT

<b>Customer:</b>	LumiTar ALT Finland Oy Hovioikeudenpuistikko 23 65100 VAASA
<b>Subject:</b>	EMC-test for LumiTar Outlander LTXO94 Luminaire with Meanwell HLG-80H-42A Power Supply. Outlander LTXO94 Luminaire is a member of product families Outlander, Mark I, Mark II and Navigator Luminaires.
<b>Type of test:</b>	<b>Induced Current density</b>
<b>Laboratory conditions:</b>	EN 55022 shielded enclosure
<b>Test conditions:</b>	-temperature 21° C -relative humidity 22%
<b>Measuring equipment:</b>	AFL VDH 30 Van Der Hoofden Test Head No: SD0130 Rohde & Schwarz ESPI 7 Test Receiver/Spectrum Analyser (incl. quasi-peak detector)
<b>Test mode:</b>	Ceiling lighting equipment, normal operations
<b>TEST DESCRIPTION:</b>	The purpose of the measurements was to determine the Induced Current density at 50 cm distance from the surface of the EUT (Ceiling lighting equipment), caused by the EUT, supplied by 230 VAC 50 Hz Power Line Voltage.
<b>TEST PROCEDURE:</b>	Measurement distance of 50 cm from the surface of the EUT (Ceiling lighting equipment) was applied, see EN 62493:2010 Table A.1. Induced Current density, caused by the EUT, was measured with Van Der Hoofden test head and ESPI-7 Test Receiver.  Tested sample: <b>#1:</b> LumiTar Outlander LTXO94, lamp (See Appendix 1, Photo 1. for test set-up) <b>#2:</b> LumiTar Outlander LTXO94, power/cable (See Appendix 1, Photo 2. for test set-up)

### Rationale for pass/fail decision:

The measured (weighted and summarized) induced current density due to the electric field in the frequency range 20 kHz to 10 MHz does not exceed the factor (F) 0,85 as defined in Annex D of EN 62493:2010 *Assessment of lighting equipment related to human exposure to electromagnetic fields*.

**TEST RESULT:**

Measured values are below limits:

Sample #	Measuring Distance [cm]	Measured F-factor	Applied limit F-factor
1: Lamp	50	0,128	0,85
2: Power	50	0,137	0,85

**EN 62493:2010** *Assessment of lighting equipment related to human exposure to electromagnetic fields (Directive 2006/95/EC)*

Rauma 3.2.2015



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## Appendix 1 Test set-up

**Customer:** LumiTar ALT Finland Oy  
Hovioikeudenpuistikko 23  
65100 VAASA

**Subject:** EMC-test for LumiTar Outlander LTXO94 Luminaire with Meanwell HLG-80H-42A Power Supply. Outlander LTXO94 Luminaire is a member of product families Outlander, Mark I, Mark II and Navigator Luminaires.



**Photo 1. Test Set-up in test chamber, sample #1**  
Ref# 2015-01-27-1262.jpg

## Appendix 1 Test set-up

**Customer:**

LumiTar ALT Finland Oy  
Hovioikeudenpuistikko 23  
65100 VAASA

**Subject:**

EMC-test for LumiTar Outlander LTXO94 Luminaire with Meanwell HLG-80H-42A Power Supply. Outlander LTXO94 Luminaire is a member of product families Outlander, Mark I, Mark II and Navigator Luminaires.



**Photo 2. Test Set-up in test chamber, sample #2**  
**Ref#2015-01-27-1263.jpg**