

CLIENT:	Sangalli Technologies Srl	PROJECT ENGINEER:	Mattia Fabbro
PROJECT NUMBER:	17226, 18435	TESTED BY:	Andrea Sant
PRODUCT:	Fixed LED luminaires	SAMPLE ID#	UDI1612231207-002 UDI1612231207-003, UDI1612231207-004, UDI1701301655-001, UDI1701301655-002, UDI1701301655-003, UDI1704111427-001, UDI1705041708-001
MODEL:	Series: STELed, PLAFOled, URALed		
STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

Evaluation Summary: Projects 17226, 18435 requires the evaluation of fixed LED luminaires:

Series: STELed
Models: A50VS45C_G22D, A50VS60C_G26O, H50VS45C_G22D

Series: PLAFOled
Models: MB40XX60_3_G61D , MB40XX60_3_G70D, MB40XX120_4_G98D

Series: URALed
Model: CC40XX60_6_G148O

These models are fixed luminaires intended to be used in damp locations..
These models are provided with LED sources.

The tests results are not intended to be a recommendation for any particular course of action. Customer is responsible for acting as it sees fit on the basis of such results.

This Report does not constitute certification of this product nor an opinion or endorsement by Intertek. This Report is intended to help in the Customer's quality assurance program, but it does not represent a continuous or exhaustive evaluation of the specimen tested or of other products or materials that were not evaluated. The statements and data provided herein do not constitute approval, disapproval, certification or acceptance of performance or materials

TEST DATA PACKAGE

CLIENT:	Sangalli Technologies Srl	PROJECT ENGINEER:	Mattia Fabbro
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TEST PACKAGE COVER PAGE

TEST PERFORMED	CLAUSE	PASS	N/A	COMMENTS
- Elevated ambient temperature luminaires	12.4	√		-
- Normal temperature test	14	√		-
- Abnormal temperature test	15		√	Not required
- Mechanical tests	16	√		-
- Barrier strength	16.1		√	No polymeric barriers.
- Metal thickness equivalency	16.2		√	No reduced metal thickness. See 5.5.1
- Five-inch flame	16.3		√	Metal enclosure
- Mold stress relief	16.4		√	No polymeric enclosure. Grounding does not rely on thermoplastic material. See 5.7.1.2, 5.7.1.6, 5.7.1.7, 6.14.3.3
- Wet locations	16.5		√	Luminaires are suitable for dry and damp locations only.
- Hot-wire ignition (HWI)	16.6		√	Metal enclosure
- Glow-wire end product	16.7		√	Metal enclosure
- High-current arc ignition (HAI)	16.8		√	Metal enclosure
- End-product arc resistance	16.9		√	Metal enclosure
- Polymeric support	16.10		√	No polymeric part used to suspend another part. See 5.7.1.5
- Metallized polymeric parts coating adhesion	16.11		√	No metallized polymeric parts. See 5.7.2.1
- Flaming oil	16.12		√	No perforated baffles. See 5.8.1
- Conduit knockout and twistout	16.13		√	No conduit knockouts or twistouts. See 5.9.1
- Self-threading screw torque	16.14		√	No self-threading screw

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MODEL:	Series: STELed, PLAFOLed, URALed		
STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

- Loading	16.15	√		-
- Snap-in or tab-mounted parts pull test without conduit opening	16.16		√	No enclosure parts secured by frictional contact alone. See 5.10.10
- Snap-in or tab-mounted parts pull test with conduit opening	16.17		√	No enclosure parts secured by frictional contact alone. See 5.10.10, No conduit openings on parts secured by interference fit. See 5.10.11
- Suspended-ceiling luminaires – security of clips	16.18		√	No integral suspended ceiling clips. See 11.1.4
- Movable joint rotation	16.19		√	No movable joints. See 5.12.1
- Movable joint torsion and pull	16.20		√	No movable joints. See 5.12.2
- Strain relief	16.21		√	Not required
- Tempered glass impact	16.22		√	No glass used as enclosure
- Glass support adhesive	16.23		√	No glass support adhesive. See 5.17.4
- Glass supported by friction or adhesive	16.24		√	Glass supported by screws and interference fit
- Horizontal burning flame	16.25		√	Metal enclosure
- Vertical burning flame	16.26		√	Metal enclosure
- Needle flame	16.27		√	Metal enclosure
- Lamp containment barrier thermal shock	16.28		√	No glass containment barrier. See 9.3.6
- Polymeric lamp containment barrier melt-through	16.29		√	No polymeric lamp containment barrier. See 7.3.1.8, 9.3.7
- Polymeric connector loading	16.30		√	No polymeric electrical connector used for luminaire mounting. See 10.2.6
- Junction box rigidity	16.31		√	No junction boxes. See 11.3.3, 11.3.7

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MODEL:	Series: STELed, PLAFOLed, URALed		
STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

- Splice inspection	16.32		√	No junction boxes or wiring compartment. See 11.6.1.2(c)(2)
- Lampholder mounting torque	16.33		√	No polymeric housing supporting a screw-shell-type lampholder. See 11.7.2.4
- Lampholder pull	16.34		√	No polymeric housing supporting a screw-shell-type lampholder. See 11.7.2.4
- Lampholder mounting bracket stop test	16.35		√	No lampholder mounting bracket stop. See 11.7.1.13
- (MEX) Thermal shock	16.36		√	Mex approval not required
- (MEX) Resistance to load	16.37		√	Mex approval not required
Electrical tests	17			-
- Dielectric voltage-withstand test	17.1	√		-
- Bond impedance	17.2	√		-
- Interlock switch endurance	17.3		√	No interlock switches
- Articulate probe	17.4	√		-
- (MEX) Insulation resistance	17.5		√	Mex approval not required

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STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

TABLE OF TEST EQUIPMENT USED

#	Equipment Description	Manufacturer's Name / Model # / Serial #	Intertek Asset #	Calibration Date	Calibration Due
1	Electrical Safety Tester	Sefelec/SMG500+/361105	1171	05/20/2016	05/20/2017
2	Camera Climatica Lighting 1	Galbusera S.r.l.	1400-1	11/28/2016	11/28/2017
3	Data Acquisition Unit 24 canali	Yokogawa/MV1024/S5MC1105	1405	06/21/2016	06/21/2017
4	Digital Power Meter WT333-F-C2 3Phase	Yokogawa/WT333-F-C2/C2RD11026V	1410	05/31/2016	05/31/2017
5	Power Supply/Elettrotest S.p.A	TPS/M 1500	1401	11/30/2016	11/30/2017
6	Humidity / Barometric Pressure / Temperature Data Recorder	PCE Group/ PCE-THB 40/ Q549778	1381	02/15/2017	02/15/2018
7	Dynamometer	AEP transducers/DNA/802258	0546	10/12/2016	10/12/2017
8	Test finger	ED&D Inc./ ULP-01/L02472034	1568	05/11/2016	05/11/2017
9	Digital Stopwatch	Hanhart/Profil2	0348	08/22/2016	08/22/2017
10	Digital Scale	Micron Srl/ AHW6000/ 920511017	0543	02/10/2017	02/10/2018
11	Digital Scale	PCE Group/PCE-PS-150MXL/	1326	02/10/2017	02/10/2018
12	Power Supply	AdaptivePowerSystems/ APS1010PR380/ 2260079	1200	10/19/2016	10/19/2017
13	Climatic Chamber (-70°/+180°C, 10%/98%UR)	Weiss/ WK3-600/70/ 58226153680010	1517	11/07/2016	11/07/2017

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Elevated ambient temperature luminaires (section 12.4)

Method:

The requirements in Clause 12.4 apply to luminaires intended for use in locations that experience a continuous elevated ambient temperature.

Tests:

A luminaire shall: be temperature tested with a source of heated air providing the elevated temperature for which the luminaire will be marked. The maximum airflow past the luminaire shall be less than 9.1 m/min (30 ft/min). Maximum variations of 5 °C from the intended ambient temperature shall be added to or subtracted from the observed temperature readings.

Results:

Test applied only on model H50VS45C_G22D:

Model: H50VS45C_G22D

Component	Temperature measured [°C]	Max Temperature allowed [°C]	Results
Tc LED PCB	81	105	PASS
LED wiring	79	105	PASS
Terminal block	75	105	PASS
Power supply connector	74	150	PASS
Tc LED driver	87	90	PASS
LED driver wiring	81	105	PASS
Mounting surface	73	90	PASS
Glass	87	-	For reference

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MODEL:	Series: STELed, PLAFOLed, URALed		
STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

Model: H50VS45C_G22D (Alternative LED module)

Component	Temperature measured [°C]	Max Temperature allowed [°C]	Results
Tc LED PCB	75	105	PASS
Tc LED driver	86	90	PASS

Appliance was operated under the following conditions:

Ambient Temperature	65	°C
Voltage	120	V
frequency	60	Hz

The products comply with the requirements of the standard.

Note:

For humidity and temperature measurements see temperature data recorder measurements

TESTED BY:	Andrea Sant	REVIEWED BY:	Andrea Pirovano
		Test Date	12-04-2017, 05-05-217
		PASS/FAIL	PASS

EQUIPMENT USED:	3	12	13
RANGE:	AUTO	AUTO	70°/+180°C, 10%/98%UR

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STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

Normal Temperature Test (section 14)

Method:

Temperatures resulting from the normal temperature test shall not exceed the limits specified in Table 14.1.2 unless the component, material, or compound has been investigated and found acceptable for a higher temperature.

A luminaire shall comply with the requirements of the dielectric voltage-withstand test of Clause 17.1 immediately after the normal temperature test.

Results:

Test applied on models A50VS45C_G22D, A50VS60C_G26O, MB40XX60_3_G61D, MB40XX60_3_G70D, MB40XX120_4_G98D, CC40XX60_6_G148O.

Model: A50VS45C_G22D

Component	Temperature measured [°C]	Max Temperature allowed [°C]	Results
Tc LED PCB	52	105	PASS
LED wiring	44	105	PASS
Terminal block	39	105	PASS
Power supply connector	35	150	PASS
Tc LED driver	48	90	PASS
LED driver wiring	46	105	PASS
Mounting surface	38	90	PASS
Glass	62	-	For reference

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MODEL:	Series: STELed, PLAFOLed, URALed		
STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

Model: A50VS60C_G260

Component	Temperature measured [°C]	Max Temperature allowed [°C]	Results
Tc LED PCB	52	105	PASS
LED wiring	44	105	PASS
Terminal block	41	105	PASS
Power supply connector	38	150	PASS
Tc LED driver	48	80	PASS
LED driver wiring	43	105	PASS
Mounting surface	36	90	PASS
Glass	51	-	For reference

Model: A50VS60C_G260 (Alternative LED module)

Component	Temperature measured [°C]	Max Temperature allowed [°C]	Results
Tc LED PCB	39	105	PASS
Tc LED driver	46	80	PASS

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MODEL:	Series: STELed, PLAFOLed, URALed		
STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

Model: MB40XX60_3_G61D

Component	Temperature measured [°C]	Max Temperature allowed [°C]	Results
LED driver wiring	52	90	PASS
Tc LED driver	56	85	PASS
Tc strip LED	62	90	PASS
LED wiring	57	105	PASS
Mounting surface	53	90	PASS
Glass	46	-	For reference

Model: CC40XX60_6_G1480

Component	Temperature measured [°C]	Max Temperature allowed [°C]	Results
LED driver wiring	41	105	PASS
Tc LED driver	43	80	PASS
Power supply connector	37	150	PASS
Terminal block	44	105	PASS
Tc strip LED	58	90	PASS
LED wiring	49	105	PASS
Mounting surface	40	90	PASS
Glass	42	-	For reference

Model: MB40XX60_3_G70D

Component	Temperature measured [°C]	Max Temperature allowed [°C]	Results
LED driver wiring	47	90	PASS
Tc LED driver	57	85	PASS
Tc strip LED	62	90	PASS
LED wiring	50	105	PASS
Mounting surface	48	90	PASS
Glass	46	-	For reference

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MODEL:	Series: STELed, PLAFOLed, URALed		
STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

Model: MB40XX120_4_G98D

Component	Temperature measured [°C]	Max Temperature allowed [°C]	Results
LED driver wiring	40	90	PASS
Tc LED driver	49	85	PASS
Tc strip LED	61	90	PASS
LED wiring	46	105	PASS
Mounting surface	45	90	PASS
Glass	41	-	For reference

Appliance was operated under the following conditions:

Ambient Temperature	25	°C
Voltage	120	V
frequency	60	Hz

The products comply with the requirements of the standard.

Note:

For humidity and temperature measurements see temperature data recorder measurements

TESTED BY:	Andrea Sant	REVIEWED BY:	Andrea Pirovano
		Test Date	18-01-2017, 06-02-2017, 07-02-2017, 04-05-2017
		PASS/FAIL	PASS

EQUIPMENT USED:	2	3	4	5	6
RANGE:	AUTO	AUTO	Max 20A	Vinmax 600V Voutmin 300V	AUTO

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MODEL:	Series: STELed, PLAFOLed, URALed		
STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

Loading (section 16.15)

A supporting device shall support a load equal to four times the total mass to be supported under intended operating conditions for 1 h. The load shall be applied in the direction of actual loading conditions.

Where more than one support is provided, the load shall be distributed as follows:

- (a) where the parts supported are no more than 11.3 kg (25 lb), the full load shall be applied to each support; or
- (b) where the parts supported are more than 11.3 kg (25 lb), the distribution of the load shall be similar to that encountered in the field.

There shall be no deflection or deformation either during or after loading that reduces electrical spacings or compromises safety.

Results:

Test applied on models A50VS45C_G22D, A50VS60C_G26O, MB40XX60_3_G61D, MB40XX60_3_G70D, MB40XX120_4_G98D, CC40XX60_6_G148O.

Model	Measured weight	Load applied	Test result
A50VS45C_G22D	9.5Kg	38Kg	PASS
A50VS60C_G26O	13Kg	52Kg	PASS
MB40XX60_3_G61D	2.4Kg	9.6Kg	PASS
MB40XX60_3_G70D	2.4Kg	9.6Kg	PASS
MB40XX120_4_G98D	4Kg	16Kg	PASS
CC40XX60_6_G148O	5.6Kg	22.4Kg	PASS

The luminaires withstands the load.

Note:

For humidity and temperature measurements see temperature data recorder measurements

TESTED BY:	Andrea Sant	REVIEWED BY:	Andrea Pirovano
		Test Date	08-02-2017
		PASS/FAIL	PASS

EQUIPMENT USED: 9 10 11

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STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

RANGE: AUTO Max 6000g res.0,2g Max 150kg res.0,05kg

Dielectric voltage-withstand (section 17.1)

Method:

A luminaire shall withstand for a period of 1 minute, without breakdown, a test potential applied between live parts and accessible non-current-carrying metal parts, including parts accessible only during relamping.

The test potential shall be 1000 V for incandescent-type luminaires and 1000 V plus twice the rated input voltage for all other types of luminaire.

The applied potential shall be gradually increased from zero at a uniform rate until the required test value is reached or breakdown occurs. During the test, any switches or other controls shall be in the ON position.

The test shall be performed on a fully assembled luminaire. Non-current-carrying parts or decorative parts not likely to become energized shall not be required to be in place.

Results:

Test applied on models A50VS45C_G22D, A50VS60C_G26O, MB40XX60_3_G61D, MB40XX60_3_G70D, MB40XX120_4_G98D, CC40XX60_6_G148O.

Model	Applied voltage	Notes	Test result
A50VS45C_G22D	1240 V AC	Test potential applied for 1 minute	PASS
A50VS60C_G26O	1240 V AC	Test potential applied for 1 minute	PASS
MB40XX60_3_G61D	1240 V AC	Test potential applied for 1 minute	PASS
MB40XX60_3_G70D	1240 V AC	Test potential applied for 1 minute	PASS
MB40XX120_4_G98D	1240 V AC	Test potential applied for 1 minute	PASS
CC40XX60_6_G148O	1240 V AC	Test potential applied for 1 minute	PASS

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MODEL:	Series: STELed, PLAFOLed, URALed		
STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

The products comply with the requirements of the standard.

Note:

For humidity and temperature measurements see temperature data recorder measurements

TESTED BY:	Andrea Sant	REVIEWED BY:	Andrea Pirovano
		Test Date	20-01-2017, 07-02-2017, 08-02-2017
		PASS/FAIL	PASS

EQUIPMENT USED: 1
RANGE: Auto

Bond impedance (section 17.2)

Method:

A luminaire shall be tested for impedance of the bonding of accessible non-current carrying metal parts with the grounding terminal means. When tested:

- (a) The resulting voltage drop shall not exceed 4 V; and
- (b) There shall be no melting of any metal in the bond, and no heating or burning, which is likely to create a fire hazard.

The test of impedance shall be performed by passing a 30 A current from a part to be grounded to the grounding terminal means for a period of 2 min and measuring the potential drop between them at the end of the period.

Results:

Test applied on models A50VS45C_G22D, A50VS60C_G26O, MB40XX60_3_G61D, MB40XX60_3_G70D, MB40XX120_4_G98D, CC40XX60_6_G148O.

Voltage drop do not exceed the limit specified. No melting of any metal in the bond, no heating or burning.

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MODEL:	Series: STELed, PLAFOLed, URALed		
STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

Model	Current Applied (A)	Drop voltage measured (V)	Result
A50VS45C_G22D	30	1.50	PASS
A50VS60C_G26O	30	1.50	PASS
MB40XX60_3_G61D	30	2.50	PASS
MB40XX60_3_G70D	30	2.50	PASS
MB40XX120_4_G98D	30	2.50	PASS
CC40XX60_6_G148O	30	2.10	PASS

The products comply with the requirements of the standard.

Note:

For humidity and temperature measurements see temperature data recorder measurements

TESTED BY:	Andrea Sant	REVIEWED BY:	Andrea Pirovano
		Test Date	07-02-2017
		PASS/FAIL	PASS

EQUIPMENT USED: 1

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MODEL:	Series: STELed, PLAFOLed, URALed		
STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

RANGE: Auto

Articulate probe (section 17.4)

Method:

17.4.1 The articulate probe of Clause 19.22 shall not contact live parts when inserted through any openings in an enclosure, with the probe in every possible position. Where necessary, an electrical indicator may be used to determine whether contact is made with live parts.

Results:

Test applied on models A50VS45C_G22D, A50VS60C_G26O, MB40XX60_3_G61D, MB40XX60_3_G70D, MB40XX120_4_G98D, CC40XX60_6_G148O.

The contact of live parts is not possible

The products comply with the requirements of the standard.

Note:

For humidity and temperature measurements see temperature data recorder measurements

TESTED BY:	Andrea Sant	REVIEWED BY:	Andrea Pirovano
		Test Date	20-01-2017, 07-02-2017
		PASS/FAIL	PASS

EQUIPMENT USED: 8

TEST DATA PACKAGE

CLIENT:	Sangalli Technologies Srl	PROJECT ENGINEER:	Mattia Fabbro
PROJECT NUMBER:	17226, 18435	TESTED BY:	Andrea Sant
PRODUCT:	Fixed LED luminaires	SAMPLE ID#	UDI1612231207-002 UDI1612231207-003, UDI1612231207-004, UDI1701301655-001, UDI1701301655-002, UDI1701301655-003, UDI1704111427-001, UDI1705041708-001
MODEL:	Series: STELed, PLAFOLed, URALed		
STANDARD (S):	Luminaires [UL 1598:2008 Ed.3 +R:17Oct2012]		

RANGE: Auto