



	SUMMARY of testing
Document reference Number :	CN245GLT 001
Date of issue:	2024-09-24 Steep 37-9
Issued by (name, function, signature):	Jing Zheng, PE
31	☐ ENEC ☐ CCA NTR ☑ ENEC based on IECEE CBTC with number: JPTUV-164104
Testing location:	 ☑ ENEC/CCA Test Laboratory ☐ E-CTF Stage 1 ☐ E-CTF Stage 3
Applicant:	MIC Optoelectronic Co.,Ltd
	2nd floor,Third Building, 97# AiNan Road,LongDong, BaoLong Street, LongGang District, Shenzhen, Guangdong, P.R. China
Manufacturer:	MIC Optoelectronic Co.,Ltd
	2nd floor,Third Building, 97# AiNan Road,LongDong, BaoLong Street, LongGang District, Shenzhen, Guangdong, P.R. China
Product:	LED Street Light
Model/Type reference:	See general product information
Trademark:	
	AC 100-277V, 50/60Hz, Class I, IP66, ta 45°C, details see General product information
Certification Scheme:	☑ ENEC ☐ CCA ☐ Other:
	EN 60598-2-3:2003+A1:2011 used in conjunction with EN IEC 60598-1:2021 + A11:2022
☐ The text of the a.m. European Stand the corresponding IEC Publication	dard was approved by CENELEC is equivalent with
	indard was approved by CENELEC with agreed common nt with the corresponding IEC Publication. An EU Deviation
This document links the following re	eports below:
☑ IEC Test Report Number:	CN245GLT 001, CN24XBA1 001(CB)
☑ EU Deviation Addendum:	Attachment 1 of CN245GLT 001
☐ OSM Decision Sheets:	See below OSM Decision Sheets
Issuing organization: (ENEC/CCA CB or TL)	TÜV Rheinland / CCIC (Ningbo) Co., Ltd.
Issued by (name, function, signature):	Zeen Xu, Authorizer
Date:	2024-09-24
0	5. I. C All. C. I. C I

Copyright © 2023, ETICS Brussels, Belgium. All rights reserved.

This document together with the referenced test report is only valid if signed by an ENEC or CCA Testing Laboratory or Certification Body and accompanied by the associated ENEC Licence or CCA Notification of Test Results or other certificate, issued by a Certification Body member of ETICS.

OD ECS 040-1 - April 2024 page 1 of 26





OSM Decision Sheet(s) taken into consideration:

Clause	Subject	OSM Decision Sheet No.
General	Insulation class MCPCB material used for LED modules	OSM-LUM DSH 1086A
3.6.5.1 5.6.8.1	Luminaires for road and street lighting Floodlights	OSM-LUM DSH 2048A
12	Luminaires provided with LEDs	OSM-LUM DSH 0919B
12 – Table 12.2	Temperature limits for rubber cables	DSH 0921
9.2	IP 6X	DSH 2003A
9.2	Torque for fixing screws of covers	DSH 0906A
8.2.1	Luminaires with LEDs	DSH 0896
0.5	Components	DSH 0402A

OD ECS 040-1 - April 2024 page 2 of 26



www.tuv.com Page 3 of 26 Report No. CN245GLT 001

TEST REPORT IEC 60598-2-3 Luminaires

Part 2: Particular requirements

Section 3: Luminaires for road and street lighting

Report Number....: CN245GLT 001

Date of issue....: See cover page

Total number of pages...... 45 pages

Name of Testing Laboratory TÜV Rheinland / CCIC (Ningbo) Co., Ltd.

preparing the Report 3F, Building C13, R&D Park, No.32 Lane 299 Guanghua Road,

National Hi-Tech Zone, Ningbo 315048, P.R. China.

Applicant's name: MIC Optoelectronic Co.,Ltd

Address.....: 2nd floor, Third Building, 97# AiNan Road, Long Dong, BaoLong

Street, LongGang District, Shenzhen, Guangdong, P.R. China

Test specification:

Standard.....: IEC 60598-2-3:2002, IEC 60598-2-3:2002/AMD1:2011 used in

conjunction with IEC 60598-1:2020

Test procedure.....: ENEC approval

Non-standard test method: N/A

TRF template used.....: IECEE OD-2020-F1:2021, Ed.1.4

Test Report Form No.....: IEC60598_2_3M

Test Report Form(s) Originator ...: Intertek Semko AB

Master TRF.....: 2021-11-01

Copyright © 2021 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

General disclaimer:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing NCB. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.



www.tuv.com Page 4 of 26 Report No. CN245GLT 001

Test	item description::	LED S	Street Light	
Trad	e Mark(s):	MIC		
Man	ufacturer:	Same	as applicant's name &	address
Mod	el/Type reference:	See G	eneral Product Informa	ition.
Ratir	ngs:	100-27 inform		IP66, ta45°C, details see General product
Resp	oonsible Testing Laboratory (as	applic	able), testing procedu	re and testing location(s):
\boxtimes	Testing Laboratory:		TÜV Rheinland / CCIC	(Ningbo) Co., Ltd.
Testi	ing location/ address	:		Park, No.32 Lane 299 Guanghua Road, , Ningbo 315048, P.R. China.
Test	ed by (name, function, signature	∍):	See cover page	
Appr	oved by (name, function, signa	ture):	See cover page	
	T. ('		N1/A	
	Testing procedure: CTF Stage		N/A	
	ng location/ address		N/A	
Tested by (name, function, signature): N/		N/A		
Appr	oved by (name, function, signa	ture) :	N/A	
	Testing procedure: CTF Stage 2	2:	N/A	
Testing location/ address		N/A		
Test	ed by (name + signature)	:	N/A	
Witn	essed by (name, function, signa	ture):	N/A	
Appr	oved by (name, function, signa	ture) :	N/A	
	Testing procedure: CTF Stage		N/A	
	Testing procedure: CTF Stage		N/A	
	ng location/ address		N/A	
	ed by (name, function, signature	•	N/A	
	essed by (name, function, signa		N/A	
	oved by (name, function, signa		N/A	
Supe	ervised by (name, function, signa	ture):	N/A	



www.tuv.com Page 5 of 26 Report No. CN245GLT 001

List of Attachments (including a total number of pages in each attachment):

Attachment 1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES. (2 pages)

Attachment 2: Photo document. (8 pages)

Attachment 3: Measurement equipment list, 1 page.

Summary of testing: This ENEC report bases on CB report CN24XBA1 001 (issued CB certificate JPTUV-164104). In this report, only Construction and Creepage distance & clearance and Protection against electric shock were check on sample. Other test data refer to previous CB report and apply for ENEC approval.

Tests performed (name of test and test clause):

Full tests were performed on model MSL-F300 was selected to check Clauses of Construction (except for Cl4.14.1, Cl4.24.2, Cl 3.6.1 (-),Cl 3.6.3.1 (-)) and Protection against electric shock and Creepage distance & clearance, other data refer to original CB report. And structures for LED driver and LED module have been checked.

Testing location:

CBTL:

Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

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

ENEC-TL:

TÜV Rheinland/CCIC(Ningbo) Co., Ltd

3F, Building C13, R&D Park, No.32, Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo 315048, China

Summary of compliance with National Differences (List of countries addressed):

EU Group Differences

☑ The product fulfils the requirements of EN 60598-2-3:2003+A1:2011 used in conjunction with EN IEC 60598-1:2021+AMD11:2022.

Use of uncertainty of measurement for decisions on conformity (decision rule):

☑ No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

☐ Other:... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)

Information on uncertainty of measurement:

The uncertainties of measurement are calculated by the laboratory based on application of criteria given by OD-5014 for test equipment and application of test methods, decision sheets and operational procedures of IECEE.

IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECEE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer.

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

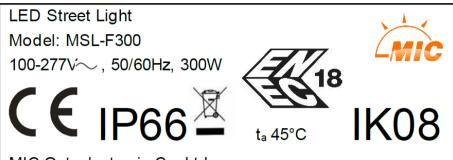


www.tuv.com Page 6 of 26 Report No. CN245GLT 001

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Location: sticking on the external surface of luminaire.



MIC Optoelectronic Co.,Ltd

2nd floor, Third Building, 97# AiNan Road, Long Dong, BaoLong Street, Long Gang District, Shenzhen, Guangdong, P.R. China Importer: xxxxxx Address: xxxxx MADE IN CHINA

Label located on the supply cord:

AC-L: Brown AC-N: Blue : Yellow-Green

: "caution, electric shock risk" symbol, height of this mark is 15mm. Attached on the glass cover or translucent cover.

Notes:

- 1. Other models are same as above, except model name and rating.
- 2. The name and address of importer will be marked on the final products.



www.tuv.com Page 7 of 26 Report No. CN245GLT 001

Test item particulars:	LED Street Light	
Classification of installation and use:	Class I and IP66 for outdoor use only	
Supply Connection:	Supply cord	
Possible test case verdicts:		
- test case does not apply to the test object:	N/A	
- test object does meet the requirement:	P (Pass)	
- test object does not meet the requirement:	F (Fail)	
Testing:		
Date of receipt of test item	2024-09-10	
Date (s) of performance of tests:	2024-09-11 to 2024-09-19	
General remarks:		
"(See Enclosure #)" refers to additional informatio "(See appended table)" refers to a table appended	• •	
Throughout this report a $oxtimes$ comma / $oxtimes$ point is used as the decimal separator.		
Throughout this report a ⊠ comma / □ point is	used as the decimal separator.	
Throughout this report a ⊠ comma / □ point is	s used as the decimal separator.	
Throughout this report a ⊠ comma / □ point is Manufacturer's Declaration per sub-clause 4.2.5	·	
Manufacturer's Declaration per sub-clause 4.2.5 The application for obtaining a CB Test Certificate	of IECEE 02:	
Manufacturer's Declaration per sub-clause 4.2.5	of IECEE 02: ☐ Yes ☑ Not applicable	
Manufacturer's Declaration per sub-clause 4.2.5 The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has	of IECEE 02: ☐ Yes ☑ Not applicable	
Manufacturer's Declaration per sub-clause 4.2.5 The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	of IECEE 02: ☐ Yes ☑ Not applicable n the General product information section.	
Manufacturer's Declaration per sub-clause 4.2.5 The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	of IECEE 02: ☐ Yes ☑ Not applicable n the General product information section.	
Manufacturer's Declaration per sub-clause 4.2.5 The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	of IECEE 02: ☐ Yes ☑ Not applicable n the General product information section.	



www.tuv.com Page 8 of 26 Report No. CN245GLT 001

General product information and other remarks:

Product: LED Street Light

Ratings: 100-277V~, 50/60Hz, Class I, ta=45°C, IP66, IK08(this rating covered by this test report is the luminaire up to the NEMA socket and its short-cap. Device connected to the socket may affect the compliance of the full system and is not covered by this test report), suitable for direct mounting on normally flammable surfaces and for outdoor use only.

- 1. All models have same appearance and construction, but different size, power and LED driver.
- 2. All models max. mounting height: 15m.
- 3. All models use same type LED chip with CCT 2700-6500K.

Model list:

Model not.						
Model No.	Input current	Power	LED quantity	LED driver model	Dimension (LxWxH) / Weight	Maximum projected
	Garront		quantity	1.10.	(Extractly) Trought	area
MSL-F300	2,5A	300W	192pcs			
MSL-F240	2,0A	240W	160500	X6-320M062	793×300×130mm/	0.10m2
MSL-F200	1,67A	200W	160pcs	A0-3201V1002	8,3kg	0,19m ²
MSL-F180	1,50A	180W	00000]		
MSL-F150	1,25A	150W	96pcs			
MSL-F120	1,00A	120W	700.00	VOE 4EOMOEG C	683×260×130mm/	0.44m2
MSL-F100	0,83A	100W	72pcs	X6E-150M056-G	4,48kg	0,14m ²
MSL-F80	0,67A	80W	48pcs]	_	
MSL-F60	0,50A	60W			EC0. 200. 120mm/	
MSL-F50	0,42A	50W	32pcs	X6E-075M056-G	568×200×130mm/	0,08m ²
MSL-F25	0,21A	25W			3,2kg	



www.tuv.com Page 9 of 26 Report No. CN245GLT 001

	IEC 60598-2-3		
Clause	Requirement + Test	Result - Remark	Verdict
3.2 (0)	GENERAL TEST REQUIREMENTS		Р
3.2 (0.3)	More sections applicable:	Yes □ No ⊠ Section/s:	_
3.2 (0.5)	Components	(see Annex 1)	_
3.2 (0.7)	Information for luminaire design in light sources	s standards	_
3.2 (0.7.2)	Light source safety standard:	IEC TR 62778:2014 EN IEC 62031: 2020+A11:2021	_
	Luminaire design in the light source safety standard		Р
3.4 (2)	CLASSIFICATION OF LUMINAIRES		Р
3.4 (2.2)	Type of protection:	Class I	Р
3.4 (2.3)	Degree of protection. :	IP66	Р
3.4 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces:	Yes ⊠ No □	_
3.4 (2.5)	Luminaire for normal use:	Yes ⊠ No □	_
	Luminaire for rough service:	Yes □ No ⊠	_
3.4 (-)	Modes of installation of road or street lighting		_
	a) on a pipe	Yes □ No ⊠	_
	b) on a mast arm	Yes ⊠ No □	_
	c) on a post top	Yes ⊠ No □	_
	d) on span or suspension wires	Yes □ No ⊠	_
	e) on a wall	Yes □ No ⊠	_
3.6 (4)	CONSTRUCTION		Р
3.6 (4.2)	Components replaceable without difficulty		Р
3.6 (4.3)	Wireways smooth and free from sharp edges		Р
3.6 (4.4)	Lampholders		N/A
3.6 (4.4.1)	Integral lampholder		N/A
3.6 (4.4.2)	Wiring connection		N/A
3.6 (4.4.3)	Lampholder for end-to-end mounting		N/A
3.6 (4.4.4)	Positioning		N/A
	- pressure test (N):		_
	After test the lampholder comply with relevant standard sheets and show no damage		N/A



www.tuv.com Page 10 of 26 Report No. CN245GLT 001

www.tuv.com	•	Report No.	CN245GLT 007
	IEC 60598-2-3	T	
Clause	Requirement + Test	Result - Remark	Verdict
	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation		N/A
	- bending test (N):		_
	After test the lampholder have not moved from its position and show no permanent deformation		N/A
3.6 (4.4.5)	Peak pulse voltage		N/A
3.6 (4.4.6)	Centre contact		N/A
3.6 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
3.6 (4.4.8)	Lamp connectors		N/A
3.6 (4.4.9)	Caps and bases correctly used		N/A
3.6 (4.4.10)	Light source for lampholder or connection according IEC 60061 not connected another way		N/A
3.6 (4.5)	Starter holders		N/A
	Starter holder in luminaires other than class II		N/A
	Starter holder class II construction		N/A
3.6 (4.6)	Terminal blocks		N/A
	Tails		N/A
	Unsecured blocks		N/A
3.6 (4.7)	Terminals and supply connections		Р
3.6 (4.7.1)	Contact to metal parts		N/A
3.6 (4.7.2)	Test 8 mm live conductor		Р
	Test 8 mm earth conductor		Р
3.6 (4.7.3)	Terminals for supply conductors		Р
3.6 (4.7.3.1)	Welded method and material		N/A
	- stranded or solid conductor		N/A
	- spot welding		N/A
	- welding between wires		N/A
	- Type Z attachment		N/A
	- mechanical test according to 15.6.2		N/A
	- electrical test according to 15.6.3		N/A
	- heat test according to 15.6.3.2.3 and 15.6.3.2.4		N/A
3.6 (4.7.4)	Terminals other than supply connection		Р
3.6 (4.7.5)	Heat-resistant wiring/sleeves		N/A
3.6 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A



www.tuv.com Page 11 of 26 Report No. CN245GLT 001

	1 Page 11 of 26 IEC 60598-2-3	- Ropolit Hol	CN245GL1 001
Clause	Requirement + Test	Result - Remark	Verdict
3.6 (4.8)	Switches		N/A
	- adequate rating		N/A
	- adequate fixing		N/A
	- polarized supply		N/A
	- compliance with IEC 61058-1 for electronic switches		N/A
3.6 (4.9)	Insulating lining and sleeves	•	N/A
3.6 (4.9.1)	Retainment		N/A
	Method of fixing	:	N/A
3.6 (4.9.2)	Insulated linings and sleeves:	•	N/A
	Resistant to a temperature > 20 °C to the wire temperature or		N/A
	a) & c) Insulation resistance and electric strength		N/A
	b) Ageing test. Temperature (°C)	:	N/A
3.6 (4.10)	Double or reinforced insulation	-	Р
3.6 (4.10.1)	No contact, mounting surface – accessible meta parts – wiring of basic insulation	1	N/A
	Safe installation fixed luminaires		Р
	Capacitors and switches		N/A
3.6 (4.10.2)	Assembly gaps:	-	N/A
	- not coincidental		N/A
	- no straight access with test probe		N/A
3.6 (4.10.3)	Retainment of insulation:	-	Р
	- fixed	Shorting cap	Р
	- unable to be replaced; luminaire inoperative	Glass cover	Р
	- sleeves retained in position		N/A
	- lining in lampholder		N/A
3.6 (4.10.4)	Protective impedance device	-	N/A
	Basic and supplementary insulation bridged by resistor(s) or appropriate capacitor		N/A
	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor		N/A
	Capacitors comply with IEC 60384-14		N/A
	Resistors comply with test (a) in 14.1 of IEC 60065		N/A
3.6 (4.11)	Electrical connections and current-carrying pa	rts	Р



www.tuv.com Page 12 of 26 Report No. CN245GLT 001

www.tuv.con		Report No. CN245	GLI 001
	IEC 60598-2-3	T	
Clause	Requirement + Test	Result - Remark	Verdict
3.6 (4.11.1)	Contact pressure		Р
3.6 (4.11.2)	Screws:	J	N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
3.6 (4.11.3)	Screw locking:	•	Р
	- spring washer		Р
	- rivets		N/A
3.6 (4.11.4)	Material of current-carrying parts		Р
3.6 (4.11.5)	No contact to wood or mounting surface		Р
3.6 (4.11.6)	Electro-mechanical contact systems		Р
3.6 (4.12)	Screws and connections (mechanical) and gland	ds	Р
3.6 (4.12.1)	Screws not made of soft metal		Р
	Screws of insulating material		N/A
	Torque test: torque (Nm); part:	Fixed LED driver: 1,2Nm	Р
	Torque test: torque (Nm); part:	Fixed plastics lens: 0,5Nm	Р
	Torque test: torque (Nm); part:	Fixed glass cover: 1,2Nm	Р
	Torque test: torque (Nm); part:	Fixed mounting bracket:8,0Nm	Р
	Torque test: torque (Nm); part:	Fixed screw terminal: 1,2Nm	Р
	Torque test: torque (Nm); part:	Fixed earth terminal: 0,5Nm	Р
3.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal		Р
3.6 (4.12.4)	Locked connections:		N/A
	- fixed arms; torque (Nm):		N/A
	- lampholder; torque (Nm):		N/A
	- push-button switches; torque 0,8 Nm:		N/A
3.6 (4.12.5)	Screwed glands; force (Nm)	Moulded plastic glands: 3,25Nm	Р
3.6 (4.13)	Mechanical strength		Р
3.6 (4.13.1)	Impact tests:		Р
	- fragile parts; energy (Nm):		N/A
	- other parts; energy (Nm):	Metal enclosure and glass cover: 0,7Nm	Р
	1) live parts		Р
	2) linings		N/A
	3) protection	Continue to afford the degree of protection	Р
	4) covers	No breaking	Р
3.6 (4.13.2)	Metal parts have adequate mechanical strength		Р



www.tuv.com Page 13 of 26 Report No. CN245GLT 001

www.tuv.con	Ŭ	Report No. CN24	5GL1 00
<u> </u>	IEC 60598-2-3	lp	T.,
Clause	Requirement + Test	Result - Remark	Verdic
3.6 (4.13.3)	Straight test finger	30N	Р
3.6 (4.13.4)	Rough service luminaires		N/A
	- IP54 or higher		N/A
	a) fixed		N/A
	b) hand-held		N/A
	c) delivered with a stand		N/A
	d) for temporary installations and suitable for mounting on a stand		N/A
3.6 (4.13.6)	Tumbling barrel		N/A
3.6 (4.14)	Suspensions, fixings and means of adjusting		Р
3.6 (4.14.1)	Mechanical load:		Р
	A) four times the weight	For model MSL-F300: 4×8,3Kg=33,2Kg	Р
	B) torque 2,5 Nm		N/A
	C) bracket arm; bending moment (Nm):		N/A
	D) load track-mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)		N/A
	Metal rod. diameter (mm):		N/A
	Fixed luminaire or independent control gear without fixing devices		N/A
3.6 (4.14.2)	Load to flexible cables		N/A
	Mass (kg)		_
	Stress in conductors (N/mm²):		N/A
	Mass (kg) of semi-luminaire		N/A
	Bending moment (Nm) of semi-luminaire:		N/A
3.6 (4.14.3)	Adjusting devices:		Р
	- flexing test; number of cycles:	45 cycles	Р
	- strands broken:	No broken	Р
	- electric strength test afterwards		Р
3.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
3.6 (4.14.5)	Guide pulleys		N/A
3.6 (4.14.6)	Strain on socket-outlets		N/A
3.6 (4.15)	Flammable materials		Р
	- glow-wire test 650°C	See Test Table 3.15 (13.3.2)	Р
	- spacing ≥30 mm		N/A



www.tuv.com Page 14 of 26 Report No. CN245GLT 001

www.tuv.com	Page 14 of 26 IEC 60598-2-3	Report No. CN24	SGLI 00
Clause		 Result - Remark	Verdict
	·		1
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		Р
	- thermal protection		N/A
	- electronic circuits exempted		N/A
3.6 (4.15.2)	Luminaires made of thermoplastic material with lamp	control gear	N/A
	a) construction		N/A
	b) temperature sensing control		N/A
	c) surface temperature		N/A
3.6 (4.16)	Luminaires for mounting on normally flammable	surfaces	N/A
		(compliance with Section 12) Electrical controlgear used	N/A
	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces	-	N/A
3.6 (4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
3.6 (4.16.2)	Thermal protection:		N/A
	- in lamp control gear		N/A
	- external		N/A
	- fixed position		N/A
	- temperature marked lamp control gear		N/A
3.6 (4.16.3)	Design to satisfy the test of 12.6 ((see clause 12.6)	N/A
3.6 (4.17)	Drain holes		N/A
	Clearance at least 5 mm		N/A
3.6 (4.18)	Resistance to corrosion		Р
3.6 (4.18.1)	- rust-resistance		Р
3.6 (4.18.2)	- season cracking in copper		N/A
3.6 (4.18.3)	- corrosion of aluminium		Р
3.6 (4.19)	Ignitors compatible with ballast		N/A
3.6 (4.20)	Rough service vibration		N/A
3.6 (4.21)	Protective shield		N/A
3.6 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps		N/A
	Shield of glass if tungsten halogen lamps		N/A



www.tuv.com Page 15 of 26 Report No. CN245GLT 001

www.tuv.com	n Page 15 of 26	Report No. CN24	15GLT 00°
	IEC 60598-2-3		_
Clause	Requirement + Test	Result - Remark	Verdict
3.6 (4.21.2)	Particles from a shattering lamp not impair safety		N/A
3.6 (4.21.3)	No direct path		N/A
3.6 (4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment:	See Test Table 3.15 (13.3.2)	N/A
3.6 (4.22)	Attachments to lamps not cause overheating or damage		N/A
3.6 (4.23)	Semi-luminaires comply Class II		N/A
3.6 (4.24)	Photobiological hazards		Р
3.6 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)		N/A
3.6 (4.24.2)	Retinal blue light hazard		Р
	Class of risk group assessed according to IEC/TR 62778:	RG1 unlimited	_
	Luminaires with E _{thr} :		N/A
	a) Fixed luminaires		N/A
	- distance x m, borderline between RG1 and RG2:		N/A
	- marking and instruction according 3.2.23		N/A
	b) Portable and handheld luminaires		N/A
	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778		N/A
	Portable luminaires for children IEC 60598-2-10 and Mains socket outlet nightlights IEC 60598-2-12 not exceed RG1 at 200 mm according to IEC/TR 62778		N/A
3.6 (4.25)	Mechanical hazard		Р
	No sharp point or edges		Р
3.6 (4.26)	Short-circuit protection		N/A
3.6 (4.26.1)	Adequate means of uninsulated accessible SELV parts		N/A
3.6 (4.26.2)	Short-circuit test with test chain according 4.26.3		N/A
	Supply source ES1 PSE		N/A
	Test chain not melt through		N/A
	Test sample not exceed values of Table 12.1 and 12.2		N/A
3.6 (4.27)	Terminal blocks with integrated screwless earthi	ng contacts	N/A
	Test according Annex V		N/A
	Pull test of terminal fixing (20 N)		N/A
	After test, resistance < 0,05 Ω		N/A
		•	-



www.tuv.com Page 16 of 26 Report No. CN245GLT 001

	IEC 60598-2-3		
Clause	Requirement + Test	Result - Remark	Verdict
	Pull test of mechanical connection (50 N)		N/A
	After test, resistance < 0.05Ω		N/A
	Voltage drop test, resistance $< 0.05 \Omega$		N/A
3.6 (4.28)	Fixing of thermal sensing control		N/A
	Not plug-in or easily replaceable type		N/A
	Reliably kept in position		N/A
	No adhesive fixing if UV radiations from a lamp can degrade the fixing		N/A
	Not outside the luminaire enclosure		N/A
	Test of adhesive fixing:		N/A
	Max. temperature on adhesive material (°C):		_
	100 cycles between t min and t max		N/A
	Temperature sensing control still in position		N/A
3.6 (4.29)	Luminaires with non-replaceable light source		N/A
	Not possible to replace light source		N/A
	Live part not accessible after parts have been opened by hand or tools		N/A
3.6 (4.30)	Luminaires with non-user replaceable light source		
	If protective cover provide protection against electric selectric shock risk" symbol:	shock and marked with "caution,	N/A
	At least one fixing means requiring use of tool		Р
3.6 (4.31)	Insulation between circuits		Р
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		Р
	Controllable luminaires requiring same level of insulation for all components, the insulation between control terminals and LV supply fulfil requirements according 4.31.1 – 4.31.3		N/A
3.6 (4.31.1)	SELV or PELV circuits		Р
	Used SELV/PELV source		Р
	Voltage ≤ ELV		Р
	Insulating of SELV/PELV circuits from LV supply		Р
	Insulating of SELV/PELV circuits from other non SELV/PELV circuits		N/A
	Insulating of SELV/PELV circuits from FELV		N/A
	Insulating of SELV/PELV circuits from other SELV/PELV circuits		N/A



www.tuv.com Page 17 of 26 Report No. CN245GLT 001

www.tuv.com	<u> </u>	Report No. CN24	JGLI 00
	IEC 60598-2-3		I
Clause	Requirement + Test	Result - Remark	Verdic
	SELV/PELV circuits insulated from accessible parts according Table X.1		Р
	Plugs not able to make any electrical contact with socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Plugs and socket-outlets does not have protective conductor contact		N/A
3.6 (4.31.2)	FELV circuits		N/A
	Used FELV source		N/A
	Voltage ≤ ELV		N/A
	Insulating of FELV circuits from LV supply		N/A
	FELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to make any electrical contact with socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Socket-outlets does not have protective conductor contact		N/A
3.6 (4.31.3)	Other circuits		N/A
	Other circuits insulated from accessible parts according Table X.1		N/A
	Class II construction with equipotential bonding for prowith live parts:	tection against indirect contacts	N/A
	- conductive parts are connected together		N/A
	- test according 7.2.3		N/A
	- conductive part not cause an electric shock in case of an insulation fault		N/A
	- equipotential bonding in master/slave applications		N/A
	- master luminaire provided with terminal for accessible conductive parts of slave luminaires		N/A
	- slave luminaire constructed as class I		N/A
3.6 (4.32)	Overvoltage protective devices		Р
	Comply with IEC 61643-11		Р
	External to controlgear and connected to earth:		Р
	- only in fixed luminaires		Р
	- only connected to protective earth		Р
3.6 (4.33)	Luminaire powered via information technology c	ommunication cabling	N/A



www.tuv.com Page 18 of 26 Report No. CN245GLT 001

www.tuv.cor	-9	Report No. CN24	OGLI 001		
	IEC 60598-2-3	T	ı		
Clause	Requirement + Test	Result - Remark	Verdict		
	Requirements for Class III luminaire		N/A		
	Rated voltage within the range of ES1 and does not exceed maximum voltage of used connector		N/A		
	Luminaire does not create any hazard from overvoltage	(see Annex 2)	N/A		
3.6 (4.34)	Electromagnetic fields (EMF)		Р		
	No harmful electromagnetic fields	According to clause 4.2.2 of IEC/EN 62493:2015+A1: 2022, this product is a LED light source to comply with the requirement of IEC/EN 62493:2015+A1:2022 and without testing.	Р		
3.6 (4.35)	Protection against moving fan blades		N/A		
	Test with a standard test finger		N/A		
	Test with test probe acc. to Figure 13 (IEC 61032) for portable luminaire		N/A		
	Blades rounded with radius ≥ 0.5 mm and:		N/A		
	-hardness less than D60 Shore		N/A		
	-peripheral speed less than 15 m/s		N/A		
	-input power of fan ≤ 2 W at rated voltage		N/A		
3.6 (4.36)	Track-mounted luminaires				
	Test in accordance with Annex A of IEC60570:2003/AMD2:2019		N/A		
3.6.1 (-)	At least IP X3 or X5 respectively. IP	IP66	Р		
	Column-integrated luminaires:		N/A		
	- parts below 2,5 m. IP		N/A		
	- parts above 2,5 m. IP:		N/A		
3.6.2 (-)	Suspension on span wires		N/A		
3.6.3 (-)	Means for attaching the luminaire or external parts to its support appropriate to the weight		Р		
3.6.3.1 (-)	Static load test		Р		
	- drag coefficient:	1,2	Р		
	- loaded area (m²):	For model MSL-F300: 0,19 m ²	Р		
	- used load (N):	377,6N	Р		
	- measured deformation (cm/m):	0	Р		
	- no rotation		Р		
3.6.4 (-)	Adjustable lampholders		N/A		



www.tuv.com Page 19 of 26 Report No. CN245GLT 001

IEC 60598-2-3								
Clause Requirement + Test Result - Remark Verd								
Luminaires installed above 5 m, glass covers shall	be:	Р						
a) glass that fractures into small pieces (test according to 3.6.5.1), or		N/A						
b) glass having a high impact shock resistance (test according to 3.6.5.2), or		N/A						
c) protected by any means to retain glass fragments		N/A						
For tunnel luminaires 3.6.5.1 apply		N/A						
Method of protection declared by the manufacturer		N/A						
Protection by the use of glass that fractures into s	mall pieces	Р						
- number of particles is more than 40:	60pcs	Р						
Protection by the use of high impact resistant glas	S	N/A						
Glass covers have high mechanical strength		N/A						
Test according IEC 62262 with test apparatus according IEC 60068-2-75 with impact energy of 5J on preconditioned sample		N/A						
Glass covers not break into large pieces		N/A						
- test according 3.6.5.1, number of particles is more than 20:		N/A						
Connection compartment of column-integrated lum	ninaire	N/A						
- provides adequate space		N/A						
- means for attachment		N/A						
- means for attachment of metal corrosion-resistant		N/A						
Compliance with ISO standard or other:		N/A						
Doors of column-integrated luminaires:		N/A						
- corrosion-resistant		N/A						
- opening only possible for an authorized person		N/A						
- impact test 5 Nm		N/A						
- sample show no damage		N/A						
Column-integrated luminaire:		N/A						
- dimension of the cable entry slot (mm):		N/A						
- cable path from the slot to the connection compartment (mm):		N/A						
- cable path free from obstruction that might cause abrasion of the cable		N/A						
	a) glass that fractures into small pieces (test according to 3.6.5.1), or b) glass having a high impact shock resistance (test according to 3.6.5.2), or c) protected by any means to retain glass fragments For tunnel luminaires 3.6.5.1 apply Method of protection declared by the manufacturer Protection by the use of glass that fractures into s - number of particles is more than 40	according to 3.6.5.1), or b) glass having a high impact shock resistance (test according to 3.6.5.2), or c) protected by any means to retain glass fragments For tunnel luminaires 3.6.5.1 apply Method of protection declared by the manufacturer Protection by the use of glass that fractures into small pieces - number of particles is more than 40						

3.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		
3.7 (11.2)	Creepage distances and clearances:	See Table 3.7 (11.2)	Р



www.tuv.com Page 20 of 26 Report No. CN245GLT 001

	-9	· · · · · · · · · · · · · · · · · · ·		
	IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict	
	Impulse withstand category (Normal category II) (Category III Annex U, Table U.1)	Category II ⊠ Category III □	_	
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		N/A	
3.7 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 3.7 (11.2) I	Р	
	Creepage distances for frequency over 30 kHz:			
	- Controlgear marked with \hat{U}_{OUT} and f_{UOUT} according IEC 61347-1, clause 7.1, item w	See Test Table 3.7 (11.2) II	N/A	
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 3.7 (11.2) II	N/A	
3.7 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 3.7 (11.2) I	Р	
	Clearances distances for frequency over 30 kHz:		N/A	
	- Controlgear marked with U _P	See Test Table 3.7 (11.2) II	N/A	
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 3.7 (11.2) II	N/A	

3.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK			
3.11 (8.2.1)	Live parts not accessible		Р	
	Basic insulated parts not used on the outer surface without appropriate protection		Р	
	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires		N/A	
	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires		Р	
	Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements		N/A	
	Basic insulation only accessible under lamp or starter replacement		Р	
	Protection in any position		Р	
	Double-ended tungsten filament lamp		N/A	
	Insulation lacquer not reliable		Р	
	Double-ended high pressure discharge lamp		N/A	
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A	
3.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position		N/A	
3.11 (8.2.3.a)	Class II luminaire:			



www.tuv.com Page 21 of 26 Report No. CN245GLT 001

www.tuv.com Page 21 of 26 Report No. CN245GLT 001						
IEC 60598-2-3						
Clause	Requirement + Test	Result - Remark Verdic				
	- basic insulated metal parts not accessible during starter or lamp replacement	N/A				
	- basic insulation not accessible other than during starter or lamp replacement	N/A				
	- glass protective shields not used as supplementary insulation	N/A				
3.11 (8.2.3.b)	BC lamp holder of metal in class I luminaires shall be connected to protective earth	N/A				
3.11 (8.2.3.c)	SELV circuits with exposed current carrying parts:	N/A				
	Ordinary luminaire:	N/A				
	- voltage under load/ no-load AC (V):	N/A				
	- voltage under load/ no-load DC (V)	N/A				
	- interrupted DC voltage (V):	N/A				
	- touch current if applicable (mA):	N/A				
	One conductive part insulated if required	N/A				
	Other than ordinary luminaire:	N/A				
	- voltage under load/ no-load AC (V):	N/A				
	- voltage under load/ no-load DC (V):	N/A				
	- interrupted DC voltage (V):	N/A				
	Class III luminaire only for connection to SELV	N/A				
	Class III luminaire not provided with means for protective earthing	N/A				
3.11 (8.2.3.d)	PELV circuits with exposed current carrying parts:	N/A				
	Ordinary luminaire:	N/A				
	- voltage under load/ no-load AC (V):	N/A				
	- voltage under load/ no-load DC (V)	N/A				
	Other than ordinary luminaire:	N/A				
	- voltage under load/ no-load AC (V):	N/A				
	- voltage under load/ no-load DC (V)	N/A				
	One pole insulated if required	N/A				
3.11 (8.2.4)	Portable luminaire have protection independent of supporting surface	N/A				
3.11 (8.2.5)	Compliance with the standard test finger or relevant probe	Р				
3.11 (8.2.6)	Covers reliably secured	P				



www.tuv.com Page 22 of 26 Report No. CN245GLT 001

			IEC 6	0598-2-3			
Clause	Requireme	nt + Test			Result - Rema	ark	Verdict
3.11 (8.2.7)			ow with capac		0V after 1 mir	า	Р
		minaire with ca V 1 s after dis	pacitor > 0,1 μ sconnection	ιF (0.25) not			N/A
	Other luminaires with capacitor $> 0.1~\mu F$ (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection						N/A
3.7 (11.2)	TABLE I: C	reepage dist	ances and cle	arances			Р
(**************************************					nusoidal volta	ages	P
		•	· ·		.B* and 11.2*	<u> </u>	Р
	Insulation	Measured	Requ	uired	Measured	Requ	ired
	type **	clearance	clearance	*Table	creepage	creepage	*Table
Distance 1:	В	1,7	0,8	11.1.B	1,7	1,4	11.1.A
Working vol	tage (V)			:	Max.80VDC		_
PTI				:	< 600 ⊠	≥ 600 □	_
Pulse voltag	jeor <i>U</i> ⊳ifapp	olicable (kV)		:			_
Supplement	tary information	on: Between tr	ace of LED boa	ard and acces	sible metal par	ts/screws fixed l	_ED module.
Distance 2:	В	11	1,5	11.1.B	11	2,5	11.1.A
Working vol	tage (V)			:	277V		_
PTI				:	< 600 ⊠	≥ 600 □	_
Pulse voltag	eor <i>U</i> ⊳ifapp	olicable (kV)		:			_
Supplemen mounting s		tion: Between	live part and	accessible m	netal parts by	screwless term	ninal (black)/
Distance 3:		-	1	-			
Working vol	tage (V)			:			_
PTI	PTI: < 600 □ ≥ 600 □						
Pulse voltag	jeor <i>U</i> ⊳ifapp	olicable (kV)		:			_
Supplemen	tary informa	tion:					

^{**} Insulation type: B – Basic; S – Supplementary; R – Reinforced. See also IEC 60598-1 Annex M.



www.tuv.com Page 23 of 26 Report No. CN245GLT 001

IEC 60598-2-3				
Clause	Requirement + Test	Result - Remark	Verdict	

3.7 (11.2)	TABLE II: 0	Creepage di	stances and	clearances			N/A	4
	Minimum	distances (mm) for a.c.	higher than 3	0 kHz sinuso	idal voltages	•	
	Applicable	part of IEC	61347-1 Tab	le 7 and 8* or	r IEC 60664-4	Table 1 and 2		
Distances	Insulation		Requ	uired	Measured	Requ	iired	
	type **	clearance	clearance	*Table	creepage	creepage	*Table	<u>;</u>
Distance 1:								
Working voltage (V)								-
Frequency if	applicable (k	:Hz)		:				_
PTI				:	< 600 □	≥ 600 □	_	_
Peak value o	of the working	y voltage Û _{out}	if applicable (l	⟨V):				_
Supplement	ary informat	ion:						
Distance 2:								
Working volt	age (V)			:				_
Frequency if	applicable (k	:Hz)		:				_
					< 600 □	<u>></u> 600 □	_	-
Peak value c	of the working	y voltage Û _{out}	if applicable (l	κV):			_	_
Supplement	ary informat	ion:						
Distance 3:								
Working volt	age (V)			:				_
Frequency if	applicable (k	Hz)		:				
PTI	PTI:					<u>></u> 600 □	_	_
Peak value o	of the working	y voltage Û _{out}	if applicable (l	⟨V):				-
Supplement	ary informat	ion:					-	

^{**} Insulation type: B – Basic; S – Supplementary; R – Reinforced.



www.tuv.com Page 24 of 26 Report No. CN245GLT 001

		- 9	· •	
		IEC 60598-2-3		
Clause	Requirement + Test		Result - Remark	Verdict

ANNEX 1 T	ABLE:	Critical componer	nts informatio	n		Р
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Supply cord	В	Dong Guan Recheer Electric Wire & Cable Co., Ltd.	H05RN-F	300/500V; 3 x 1,0mm ²	EN 50525-2-21	VDE 40015173
Input wire of LED driver	В	Guangdong Rifeng Electrical Cable Co., Ltd.	H05RN-F	300/500V; 3 x 1,0mm ²	EN 50525-2-21	VDE 40015999
Output wire of LED driver	В	Guangdong Rifeng Electrical Cable Co., Ltd.	H05RN-F	300/500V; 2 x 1,0mm ²	EN 50525-2-21	VDE 40015999
Dimming wire of LED driver	В	Yong Hao Electrical Industry Co., Ltd.	H03VV-F	300/500V, 2 x 0,5mm ²	EN 50525-2-21	VDE 40027125
Earth wire	С	KUNSHAN XINGHONGM ENG ELECTRONIC CO LTD	1015	300V; 20AWG; 105°C	EN 60598-2-3 EN IEC 60598- 1	UL E315421 Tested with appliance
Input wire of NEMA socket	С	DONG GUAN SHENG PAI ELECTRIC WIRE & CABLE CO LTD	3239	Min 20AWG, 60000Vdc, 105°C	EN 60598-2-3 EN IEC 60598- 1	UL E347603 Tested with appliance
Coupler terminal	В	Ningbo Jinwei Electrical Technology Co., Ltd.	JN002(female part); JN002(male part)	400V, 16A	EN 61984	VDE 40038746
Screwless terminal	В	WAGO KONTAKTTECHNI K GMBH & CO. KG	222-412	0,2 to 2,5mm ² /400V, 24A	EN 60998-1 EN 60998-2-2	UL Certificate: ENEC-01360
Class-end connector	С	HEAVY POWER CO LTD	CE2	PC	EN 60598-2-3 EN IEC 60598- 1	UL EE113650 Tested with appliance
Heat- shrinkable tubing for Class-end connector	С	DEEM Electronic & Electric Material Co., LTD	DM-D31/D41	600V, 125°C	EN 60598-2-3 EN IEC 60598- 1	UL E493462 Tested with appliance



www.tuv.com Page 25 of 26 Report No. CN245GLT 001

	IEC 60598-2-3					
Clause	Requirement + Test	Result - Remark	Verdict			

LED lens	С	TEIJIN POLYCARBONAT E CHINA LTD	L- 1250U(#)(f1), L- 1250V(#)(f1), L- 1250Z(#)(f1)	HB; 115°C	EN 60598-2-3 EN IEC 60598- 1	UL E245526 Tested with appliance
Reflector	С	MITSUBISHI ENGINEERING- PLASTICS CORP	S-3000+(f1)	HB; 115°C	EN 60598-2-3 EN IEC 60598- 1	UL E41179 Tested with appliance
Glass cover	С	MIC Optoelectronic Co.,Ltd	GLA	-40°C to 200°C; Δt:200°C	EN 60598-2-3 EN IEC 60598- 1	Tested with appliance
LED PCB	С	Huizhou Sanlicheng Technology Co Ltd	YSL-L1	V-0; 130°C	EN 60598-2-3 EN IEC 60598- 1	UL E479275 Tested with appliance
LED	С	LUXEON	L150- 65705024000 00	5050; If:1240mA; Vf: 24V; CCT 2700-6000K	IEC TR 62778	Tested with appliance
NEMA socket and its Shorting cap	В	Zhejiang Qicheng Electrical Equipment Co., Ltd.	LC-10K(male) LC-10R/5 (female)	480VAC, 50/60Hz, Max.15A, -40°C~100°C	IEC 61984	SGS CB: FI- 43492
Surge protective device	В	Guangdong ZP Lightning Protection Technology Co., Ltd.	ZP-LED- P10D	Un:100~277VAC Uc:320VAC; 50/60Hz; In:10kV; Uoc:10kV; Isccr: 300A; Up: 1,3kV (L-N and L/N-GND); ta:85°C; IP67	IEC 61643-11 EN 61643-11	TÜV Rh Mark R 50516300 001
LED driver	В	Shen Zhen MOSO Electronics Technology Co., Ltd.	X6-320M062	Input: 100-277VAC; 50/60Hz; Max. 4,2A; Output: 38-62VDC; Max. 80VDC; 0,75-7,5A; 320W; ta. 50°C(Input 100-200V~); ta. 60°C(Input 200-277V~) tc. 90°C, Constant current; Class I; IP67; SELV; Independent	EN 61347-1 EN 61347-2-13 EN IEC 62384	TUV Rh ENEC HN 69290094 0002



www.tuv.com Page 26 of 26 Report No. CN245GLT 001

			· •	
		IEC 60598-2-3		
Clause	Requirement + Test		Result - Remark	Verdict

LED driver	В	SHENZHEN MOSO ELECTRONICS TECHNOLOGY CO., LTD	X6E- 150M056-G	Input: 100-277VAC; 50/60Hz; 2,0A; Output: 28-56VDC; Max. 70VDC;0,43-4,30A; 150W; ta 50°C(Input 120-200V~); ta 55°C(Input 200-277V~); tc 90°C Constant current; Class I; IP67; SELV; Independent	EN 61347-1 EN 61347-2-13 EN IEC 62384	TUV SUD ENEC U6 077716 0300 Rev. 02
LED driver	В	SHENZHEN MOSO ELECTRONICS TECHNOLOGY CO., LTD	X6E- 075M056-G	Input: 100-277VAC; 50/60Hz; 0,9A; Output: 28-56VDC; Max. 80VDC;0,215-2,15A; 75W; ta 50°C(Input 120-200V~); ta 55°C(Input 200-277V~); tc 90°C, Constant current; Class I; IP67; SELV; Independent	EN 61347-1 EN 61347-2-13 EN IEC 62384	TUV SUD ENEC U6 077716 0300 Rev. 02

Supplementary information:

The codes above have the following meaning:

- A The component is replaceable with another one, also certified, with equivalent characteristics
- B The component is replaceable if authorised by the test house
- C Integrated component tested together with the appliance
- D Alternative component

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.

²⁾ Components license available upon request.



N/A

N/A

Page 1 of 2

Report No.: Attachment 1 of CN245GLT 001

		Rep	ort No.: Attachment 1 of CN24	5GLI 001
	IEC60598_2_3N	Л ATTACHM	ENT	
Clause	Requirement + Test		Result - Remark	Verdict
	ATTACHMENT T	O TEST RE	PORT	
	EUROPEAN GROUP DIFFERENCI	naires ar requireme	ents	
Differences ac	cording to EN 60598-2-3 EN IEC 60598		2011 used in conjunction with 11:2022	
TRF template	used: IECEE OD-20	020-F2:2020,	, Ed. 1.1	
Attachment F	orm No EU_GD_IEC6	60598_2_3M		
Attachment O	riginator: UL(Demko)			
Master Attach	ment 2022-05-24			
	022 IEC System for Conformity Teseva, Switzerland. All rights reserved		ertification of Electrical Equip	ment
	CENELEC COMMON MODIFICATION	NS (EN)		Р
3.5 (3)	MARKING			Р
3.5 (3.2.12)	Note 4 deleted			N/A
3.6 (4)	CONSTRUCTION			Р
4.7 (4.11.6)	Electro-mechanical contact systems strength test at 1 500 V	: electric		Р
3.10 (5)	EXTERNAL AND INTERNAL WIRIN	G		Р
3.10 (5.2.2)	Cables equal to EN 50525 (all parts))		Р
	Paragraph 2 deleted			Р
	Replace table 5.1 – Supply cord			Р
3.12 (12)	ENDURANCE TESTS AND THERM	AL TESTS		Р
3.12 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to fixed wiring	unsleeved		N/A
ZB	ANNEX ZB, SPECIAL NATIONAL C	ONDITIONS	6 (EN)	N/A
(3.3)	DK: power supply cords of class I with label	uminaires		N/A
(5.2.1)	CY, DK, FI, UK: type of plug			N/A
(5.2.18)	DK: socket-outlets			N/A
			•	•

ANNEX ZC, NATIONAL DEVIATIONS (EN)

FR: Shuttered socket-outlets 10/16A

ZC

(4 & 5)



Page **2** of **2**

Report No.: Attachment 1 of CN245GLT 001

IEC60598_2_3M ATTACHMENT						
Clause	Requirement + Test Result - Remark					
	FR: Safety requirements for high buildings (Decree of 30 December 2011 on safety regulations for the construction of high- rise buildings and their protection against fire and panic risks; Section VIII; Article GH 48, Lighting) Glow-wire test for outer parts of luminaires:					
	- 850°C for luminaires in stairways and horizontal travel paths		N/A			
	- 650°C for indoor luminaires		N/A			
	UK: Requirements according to United Kingdom Building Regulation		N/A			



Figure 1.: Front view of model MSL-F300

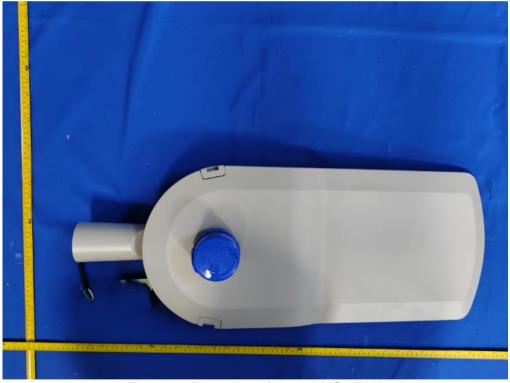


Figure 2.: Base view of model MSL-F300

TÜVRheinland®

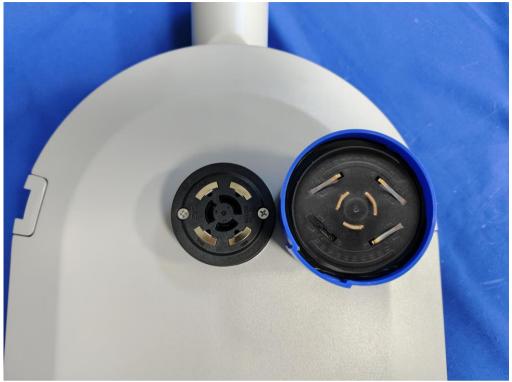


Figure 3.: Internal view of model MSL-F300

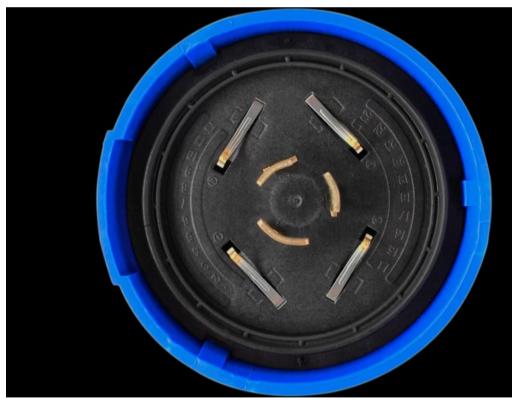


Figure 4.: Internal view of model MSL-F300

TÜVRheinland®



Figure 5.: Internal view of model MSL-F300

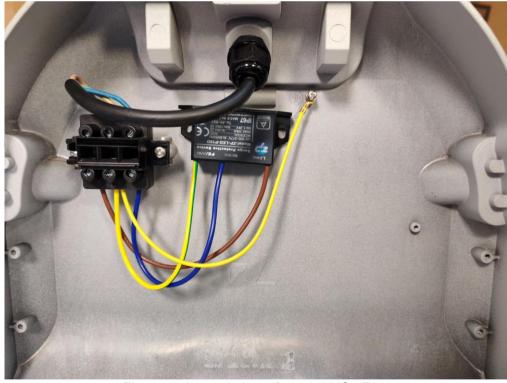


Figure 6.: Internal view of model MSL-F300

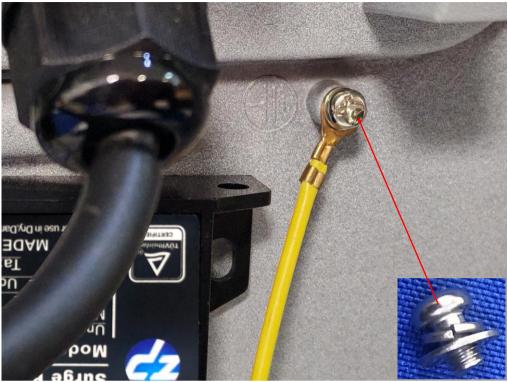


Figure 7.: Earth view of model MSL-F300



Figure 8.: Internal view of model MSL-F300



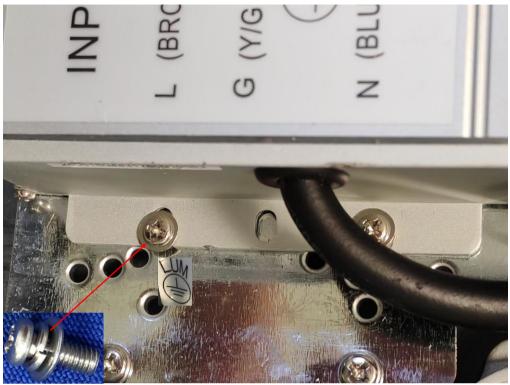


Figure 9.: Earth view of model MSL-F300



Figure 10.: Internal view of model MSL-F300





Figure 11.: Internal view of model MSL-F300



Figure 12.: LED module view of model MSL-F300





Figure 13.: LED driver view of model X6-320M062



Figure 14.: LED driver view of model X6-150M056-G





Figure 15.: LED driver view of model X6-075M056-G



Figure 16.: Surge Protective Device view
- END OF REPORT -



Measurement Equipment List

Service Start Date 11.09.2024 Service End Date 19.09.2024

Cost Center 183

Deliverable/Report Number CN245GLT 001 AMEL ID 0180305003A00010

Client MIC Optoelectronic Co.,Ltd

Product LED Street Light Comment A003811618

			Pa	ge 1	of 1
Equip.	Description	Model	Manufacturer	Last Date	Due Date
				DD.MM.YYYY	DD.MM.YYYY
G1809430	Digital power meter	WT210	YOKOGAWA	06.03.2024	06.03.2025
9038327	Digital display caliper	91511	SATA	25.09.2023	25.09.2024
G1809482	Impact hammer	F22.50	PTL	20.12.2023	20.12.2024
G1828658	Torque screw driver	RTD260CN	тониісні	23.04.2024	23.04.2025

* No entry for devices that are not subject to regular calibration or require initial verification/calibration only.

where required, Signature: Zasm LT