



Test Report issued under the responsibility of:



TEST REPORT
IEC 60598-2-3&IEC 60598-2-5
Luminaires
Part 2: Particular requirements
Section 3: Luminaires for road and street lighting
Section 5: Floodlighting

Report Number..... : 4954467.55

Date of issue..... : 2026-06-23

Total number of pages : 89 pages

Name of Testing Laboratory preparing the Report : DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch

Applicant's name : AOK Industrial Company Limited

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Test specification:

Standard : IEC 60598-2-3:2002, IEC 60598-2-3:2002/AMD1:2011 and IEC 60598-2-5:2015 used in conjunction with IEC 60598-1:2020

Test procedure : CB Scheme

Non-standard test method : N/A

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

Test Report Form No. : IEC60598_2_3&5B

Test Report Form(s) Originator : SGS CEBEC

Master TRF : 2022-08-18

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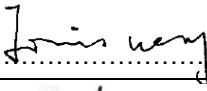
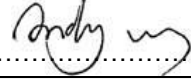
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General disclaimer:

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Test item description	LED Luminaire	
Trade Mark(s)		
Manufacturer	Same as applicant	
Model/Type reference	Refer to Attachment 4 for detailed model list	
Ratings	220-240 VAC, 50/60 Hz, Class I, IP66, ta: 55 °C; non-user replaceable LEDs; Other information refers to Attachment 4 for detailed model list	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	CB Testing Laboratory:	DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch
Testing location/ address		Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China
Tested by (name, function, signature)		Jimmy Wang (Project Handler) 
Approved by (name, function, signature) ...		Andy Wang (Reviewer) 
☐	Testing procedure: CTF Stage 1:	
Testing location/ address		
Tested by (name, function, signature)		
Approved by (name, function, signature) ...		
☐	Testing procedure: CTF Stage 2:	
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name, function, signature) . :		
Approved by (name, function, signature) ...		
☐	Testing procedure: CTF Stage 3:	
☐	Testing procedure: CTF Stage 4:	
Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) . :		
Approved by (name, function, signature) ...		
Supervised by (name, function, signature) :		

List of Attachments (including a total number of pages in each attachment): Attachment 1: European Group differences and national differences for EN 60598-2-3: 2003+ A1: 2011 used in conjunction with EN IEC 60598-1: 2021 + A1: 2022 (2 pages) Attachment 2: European Group differences and national differences for EN 60598-2-5: 2015 used in conjunction with EN IEC 60598-1: 2021 + A1: 2022 (2 pages) Attachment 3: Additional requirement of IEC 62031: 2018 and EN IEC 62031: 2020 + A11: 2021 (2 pages) Attachment 4: Detailed model list (2 pages) Attachment 5: Photos (28 pages)	
Summary of testing:	
Tests performed (name of test and test clause): AOK-600WHMA-NV-A5-PH-6570-T2-A with plug-in photo control cap was subjected to full test. AOK-600WHMA-NV-A5-PH-6570-T2-B with NEMA shorting cap was subjected to endurance test, IP66 test and normal thermal test. AOK-480WHMA-NV-A5-PH-6570-T2-B with plug-in photo control cap and LED driver SS-240NH-V300BHB (2 pcs) was subjected to endurance test and normal thermal test. AOK-400WHMA-NV-A5-PH-6570-T2-B with plug-in photo control cap and LED driver SS-200NH-V300BHB (2 pcs) was subjected to endurance test and normal thermal test. AOK-600WHMA-NV-A5-PH-6570-T2-B with plug-in photo control cap and alternative LED driver SS-680NP-360BH was subjected to endurance test, capacitance discharge test, normal thermal test, insulation resistance and electric strength test, creepage distance and clearance measurement, protective conductor current test. All models were subjected to construction check.	Testing location: DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China
Summary of compliance with National Differences (List of countries addressed): ☒ EU Group differences	

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.

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.

Representative

Location: Attached on external surface of enclosure, visible during installation and normal use



Location: Attached on external surface of enclosure, visible during installation and normal use.



Location: Affixed on supply cable of input side

Remark on above marking:

- 1, The height of graphical symbols is more than 5 mm;
- 2, The height of letters and numerals is more than 2 mm;
- 3, The height of rubbish bin symbol is more than 7 mm.
- 4, The height of "caution, risk of electric shock" symbol is more than 15 mm.

Test item particulars:	
Classification of installation and use: LED luminaires, class I, IP66	
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: 2026-05-15	
Date (s) of performance of tests: 2025-05-15 to 2026-06-15	
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☒ comma / ☐ point is used as the decimal separator. Clause numbers between brackets refer to clauses in IEC 60598-1	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60598-1:	
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:	☐ Yes ☒ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies): Same as applicant	

General product information and other remarks:

The samples have been tested/evaluated and found compliant with the requirements of the safety standards listed below:

- IEC 60598-2-3: 2002+ A1: 2011 used in conjunction with IEC 60598-1: 2020
- EN 60598-2-3: 2003+ A1: 2011 used in conjunction with EN IEC 60598-1: 2021 + A11: 2022
- IEC 60598-2-5: 2015 used in conjunction with IEC 60598-1: 2020
- EN 60598-2-5: 2015 used in conjunction with EN IEC 60598-1: 2021 + A11: 2022
- EN 62493: 2015 & EN 62493: 2015 + A1: 2022

The products do not contain any active electronic parts, so they are considered to comply with EN 62493: 2015 & EN 62493: 2015 + A1: 2022 without any testing.

The products covered in this report are Class I LED luminaires, connected to supply by supply cord, equipped with non-user replaceable LEDs.

All models have similar electrical and mechanical construction except LED driver, power, size and LED modules.

The plug-in photocontrol cap or NEMA Short-circuit cap will not delivery with the completed products. The plug-in photocontrol cap or NEMA Short-circuit cap indicated in this report are only for test purpose provided by manufacturer.

The requirement of photobiological safety of LED required by IEC 62471: 2006 and EN 62471: 2008, AOK-600WHMA-NV-A5-PH-6570-T2-A had been tested and was classified as Risk Group 1. According to these test results, the products in this report were classified as Risk Group 1 and do not pose any photobiological hazard according to IEC/EN 62471. No labelling is required. Details refer to test report 4954467.50.

For the blue light hazard required by IEC TR 62778: 2014, AOK-600WHMA-NV-A5-PH-6570-T2-A had been tested and met Risk Group 1. Therefore, all models in this report need not mark d_{thr} . Details refer to test report 4954467.56.

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
3.2 (0)	GENERAL TEST REQUIREMENTS		
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 standards		—
3.2 (0.7.2)	Light source safety standard	IEC/EN IEC 62031	—
	Luminaire design in the light source safety standard		P

3.4 (2)	CLASSIFICATION OF LUMINAIRES		
3.4 (2.2)	Type of protection	Class I	P
3.4 (2.3)	Degree of protection	IP66	P
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 ☐ (for models with P=A)	—
	b) on a Flat mounted	Yes ☒ No ☐ (for models with P=B)	—
	c) on a post top	Yes ☐ No ☒	—
	d) on span or suspension wires	Yes ☐ No ☒	—
	e) on a wall	Yes ☐ No ☒	—

3.5 (3)	MARKING		
3.5 (3.2)	Mandatory markings		P
	Position of the marking		P
	Format of symbols/text		P
3.5 (3.3)	Additional information		P
	Language of instructions		P
3.5 (3.3.1)	Combination luminaires		N/A
3.5 (3.3.2)	Nominal frequency in Hz		P
3.5 (3.3.3)	Operating temperature		N/A
3.5 (3.3.5)	Wiring diagram		P
3.5 (3.3.6)	Special conditions		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
3.5 (3.3.7)	Metal halide lamp luminaire – warning		N/A
3.5 (3.3.8)	Limitation for semi-luminaires		N/A
3.5 (3.3.9)	Power factor and supply current		N/A
3.5 (3.3.10)	Suitability for use indoors		N/A
3.5 (3.3.11)	Luminaires with remote control		N/A
3.5 (3.3.12)	Clip-mounted luminaire – warning		N/A
3.5 (3.3.13)	Specifications of protective shields		N/A
3.5 (3.3.14)	Symbol for nature of supply		N/A
3.5 (3.3.15)	Rated current of socket outlet		N/A
3.5 (3.3.16)	Rough service luminaire		N/A
3.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	Type Y	P
3.5 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
3.5 (3.3.19)	Protective conductor current in instruction if applicable		N/A
3.5 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
3.5 (3.3.21)	Non replaceable and non-user replaceable light sources information provided	Non-user replaceable LEDs	P
3.5 (3.3.22)	Controllable luminaires, classification of insulation provided		P
3.5 (3.3.23)	Luminaires without control gear provided with necessary information for selection of appropriate component		N/A
3.5 (3.3.24)	If not supplied with terminal block, information on the packaging		P
3.5 (3.3.25)	Luminaires employing light sources emitting UV on mains wiring, information provided		N/A
3.5 (3.3.26)	Wall mounted luminaire using external flexible cable or cord longer than 0.3 m, information provided		N/A
3.5 (3.4)	Test with water		P
	Test with hexane		P
	Legible after test		P
	Label attached		P
3.5 (-)	Additional information in instruction leaflet		P
	a) Design attitude		P
	b) Weight		P
	c) Overall dimensions		P

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	d) Maximum projected area if applicable		P
	e) Cross-sectional area of wires if applicable		N/A
	f) Suitability for indoors use		N/A
	g) Dimensions of the compartment		N/A
	h) Torque setting to be applied to bolts or screws		P
	i) Maximum mounting height		P
5.5 (-)	Additional information if applicable		P
	a) Operation position		P
	b) Weight and dimensions		P
	c) Maximum protected area		P
	d) Limitation of use indoors and/or outdoor		N/A
	e) Maximum mounting height if ≤ 5 m		N/A

3.6 (4)	CONSTRUCTION		
3.6 (4.2)	Components replaceable without difficulty		P
3.6 (4.3)	Wireways smooth and free from sharp edges		P
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
	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

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
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		P
3.6 (4.7.1)	Contact to metal parts		N/A
3.6 (4.7.2)	Test 8 mm live conductor		N/A
	Test 8 mm earth conductor		N/A
3.6 (4.7.3)	Terminals for supply conductors		N/A
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		P
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
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		P
3.6 (4.9.1)	Retainment		P
	Method of fixing : Fixed by construction		P
3.6 (4.9.2)	Insulated linings and sleeves:		P

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	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		N/A
3.6 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		N/A
	Safe installation fixed luminaires		N/A
	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)	Retention of insulation:		N/A
	- fixed		N/A
	- unable to be replaced; luminaire inoperative		N/A
	- 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 parts		P
3.6 (4.11.1)	Contact pressure		P
3.6 (4.11.2)	Screws:		N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
3.6 (4.11.3)	Screw locking:		P
	- spring washer		P
	- rivets		N/A
3.6 (4.11.4)	Material of current-carrying parts		P
3.6 (4.11.5)	No contact to wood or mounting surface		P

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
3.6 (4.11.6)	Electro-mechanical contact systems		N/A
3.6 (4.12)	Screws and connections (mechanical) and glands		P
3.6 (4.12.1)	Screws not made of soft metal		P
	Screws of insulating material		N/A
	Torque test: torque (Nm); part..... :	Screw for fixing input connector: 1,2 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing SPD: 1,2 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing earthing terminal: 0,5 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing input terminal block: 1,2 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing LED driver: 1,2 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing output connector: 0,5 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing output terminal block: 0,5 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing glass: 1,2 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing LED lens: 0,5 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing screw terminal on LED module: 0,4 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing NEMA socket: 1,2 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing mounting pole (for models with P=A): 17 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing mounting bracket (for models with P=B): 29 Nm	P
	Torque test: torque (Nm); part..... :	Screw for fixing mounting bracket of LED driver (for models with P=B): 1,2 Nm	P
3.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
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)..... :	6,25	P
3.6 (4.13)	Mechanical strength		P

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
3.6 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm)		N/A
	- other parts; energy (Nm).....	Metal enclosure, glass cover and NEMA socket (tested with plug-in photocontrol cap or NEMA Short-circuit cap): 0,7 Nm; Metal enclosure, glass cover and NEMA socket complied with IK09 test.	P
	1) live parts		P
	2) linings		N/A
	3) protection		P
	4) covers		P
3.6 (4.13.2)	Metal parts have adequate mechanical strength		P
3.6 (4.13.3)	Straight test finger		P
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		P
3.6 (4.14.1)	Mechanical load:		P
	A) four times the weight	AOK-600WHMA-NV-A5-PH-6570-T2-A: 15,31 kg x 4 = 61,24 kg; AOK-600WHMA-NV-A5-PH-6570-T2-B: 15,78 kg x 4 = 63,12 kg	P
	B) torque 2,5 Nm	For models with P=B	P
	C) bracket arm; bending moment (Nm).....	For models with P=B: 40 N	P
	D) load track-mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)		N/A
	Metal rod. diameter (mm)		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	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/mm ²)		N/A
	Mass (kg) of semi-luminaire		N/A
	Bending moment (Nm) of semi-luminaire		N/A
3.6 (4.14.3)	Adjusting devices:		P
	- flexing test; number of cycles.....	45 cycles for models with P=B	P
	- strands broken	< 50 %	P
	- electric strength test afterwards		P
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		P
	- glow-wire test 650°C	See Test Table 3.15 (13.3.2)	P
	- spacing ≥30 mm		N/A
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		P
	- 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		P
	No lamp control gear	Electric control gear 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

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
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		P
3.6 (4.18.1)	- rust-resistance		P
3.6 (4.18.2)	- season cracking in copper		N/A
3.6 (4.18.3)	- corrosion of aluminium		P
3.6 (4.19)	Igniters 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
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		P
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		P
	Class of risk group assessed according to IEC/TR 62778	Risk Group 1	—
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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/62778		N/A
3.6 (4.25)	Mechanical hazard		P
	No sharp point or edges		P
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 earthing 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
	Pull test of mechanical connection (50 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Voltage drop test, resistance < 0,05 Ω		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 ($^{\circ}\text{C}$) :		—
	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

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Clause	Requirement + Test	Result - Remark	Verdict
3.6 (4.30)	Luminaires with non-user replaceable light source		P
	If protective cover provide protection against electric shock and marked with “caution, electric shock risk” symbol:		P
	At least one fixing means requiring use of tool		P
3.6 (4.31)	Insulation between circuits		P
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		P
	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		P
3.6 (4.31.1)	SELV or PELV circuits		N/A
	Used SELV/PELV source		N/A
	Voltage $\leq$ ELV		N/A
	Insulating of SELV/PELV circuits from LV supply		N/A
	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
	SELV/PELV 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
	Plugs and socket-outlets does not have protective conductor contact		N/A
3.6 (4.31.2)	FELV circuits		P
	Used FELV source		P
	Voltage $\leq$ ELV		P
	Insulating of FELV circuits from LV supply		P
	FELV circuits insulated from accessible parts according Table X.1		P
	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

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Clause	Requirement + Test	Result - Remark	Verdict
	Socket-outlets does not have protective conductor contact		N/A
3.6 (4.31.3)	Other circuits		P
	Other circuits insulated from accessible parts according Table X.1		P
	Class II construction with equipotential bonding for protection against indirect contacts with live parts:		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		P
	Comply with IEC 61643-11		P
	External to controlgear and connected to earth:		P
	- only in fixed luminaires		P
	- only connected to protective earth		P
3.6 (4.33)	Luminaire powered via information technology communication cabling		N/A
	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)		P
	No harmful electromagnetic fields		P
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:		
	-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		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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	P
	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		P
3.6.3.1 (-)	Static load test (AOK-600WHMA-NV-A5-PH-6570-T2-A)		P
	- drag coefficient.....	1,2	P
	- loaded area (m²).....	0,1978	P
	- used load (N).....	472,349	P
	- measured deformation (cm/m)	No rotation	P
	- no rotation		P
3.6.3.1 (-)	Static load test (AOK-600WHMA-NV-A5-PH-6570-T2-B)		P
	- drag coefficient.....	1,2	P
	- loaded area (m²).....	0,1768	P
	- used load (N).....	422,201	P
	- measured deformation (cm/m)	No rotation	P
	- no rotation		P
3.6.4 (-)	Adjustable lampholders		N/A
3.6.5 (-)	Luminaires installed above 5 m, glass covers shall be:		P
	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		P
	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	glass having a high impact shock resistance	P
3.6.5.1 (-)	Protection by the use of glass that fractures into small pieces		N/A
	- number of particles is more than 40.....		N/A
3.6.5.2 (-)	Protection by the use of high impact resistant glass		P
3.6.5.2.1 (-)	Glass covers have high mechanical strength		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Test according IEC 62262 with test apparatus according IEC 60068-2-75 with impact energy of 5J on preconditioned sample		P
3.6.5.2.2 (-)	Glass covers not break into large pieces		P
	- test according 3.6.5.1, number of particles is more than 20	99	P
3.6.6 (-)	Connection compartment of column-integrated luminaire		N/A
	- provides adequate space		N/A
	- means for attachment		N/A
	- means for attachment of metal corrosion-resistant		N/A
3.6.7 (-)	Compliance with ISO standard or other		N/A
3.6.8 (-)	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
3.6.9 (-)	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
5.6.1 (-)	At least IPX3 if for outdoor use		P
5.6.2 (-)	Lampholder brackets and lamp supports		N/A
5.6.3 (-)	Adjusting means		P
5.6.4 (-)	Controlling components		N/A
5.6.5 (-)	Fixing device		P
	Wind force test	For AOK-600WHMA-NV-A5-PH-6570-T2-A: Projected area: 0,1978 m²; Load applied: 0,475 kN; For AOK-600WHMA-NV-A5-PH-6570-T2-B: Projected area: 0,1768 m²; Load applied: 0,424 kN	P
5.6.6 (-)	Locking of angular adjustment		P
5.6.7 (-)	Vibration resistance		P

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Clause	Requirement + Test	Result - Remark	Verdict
5.6.8 (-)	Requirement on glass cover if mounting height > 5 m		P
	Method of protection	Protection by the use of glass that fractures into small pieces	P

3.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		
3.7 (11.2)	Creepage distances and clearances	See Table 3.7 (11.2)	P
	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	P
	Creepage distances for frequency over 30 kHz:		N/A
	- 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	P
	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

3.8 (7)	PROVISION FOR EARTHING		
3.8 (7.2.1 + 7.2.3)	Accessible metal parts		P
	Metal parts in contact with supporting surface		P
	Resistance < 0,5 Ω	Max. 0,066 Ω	P
	Self-tapping screws used		N/A
	Thread-forming screws		N/A
	Thread-forming screw used in a groove		N/A
	Protective earth makes contact first		P
	Terminal blocks with integrated screwless protective earthing contacts tested according Annex V		N/A
	Protective earthing of the luminaire not via built-in control gear		P
3.8 (7.2.2 + 7.2.3)	Protective earth continuity in joints, etc.		N/A
3.8 (7.2.4)	Locking of clamping means		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Compliance with 4.7.3		P
3.8 (7.2.5)	Protective earth terminal integral part of connector socket		P
3.8 (7.2.6)	Protective earth terminal adjacent to mains terminals		P
3.8 (7.2.7)	Electrolytic corrosion of the protective earth terminal		P
3.8 (7.2.8)	Material of protective earth terminal		P
	Contact surface bare metal		P
3.8 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
3.8 (7.2.11)	Protective earthing core coloured green-yellow		P
	Length of earth conductor		P
3.8 (7.2.12)	PELV circuit connected to protective earth for functional purpose		N/A

3.9 (14)	SCREW TERMINALS		
	Separately approved; component list	(see Annex 1)	P
	Part of the luminaire	(see Annex 3)	N/A

3.9 (15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		
	Separately approved; component list..... :	(see Annex 1)	P
	Part of the luminaire :	(see Annex 4)	P

3.10 (5)	EXTERNAL AND INTERNAL WIRING		
3.10 (5.2)	Supply connection and external wiring		P
3.10 (5.2.1)	Means of connection :	Supply cord	P
	Outdoor luminaire has not PVC insulated external wiring if not Class III or SELV/PELV circuits ≤ 25 V AC/60 V DC/25 V peak interrupted DC voltage with frequency 10Hz -200 Hz or protected from outdoor environment		N/A
3.10 (5.2.2)	Type of cable :	See Annex 1	P
	Nominal cross-sectional area (mm ²) :	See Annex 1	P
	Cables equal to IEC 60227 or IEC 60245		P
3.10 (5.2.3)	Type of attachment, X, Y or Z	Type Y	P
3.10 (5.2.5)	Type Z not connected to screws		N/A
3.10 (5.2.6)	Cable entries:		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- suitable for introduction		P
	- adequate degree of protection		P
3.10 (5.2.7)	Cable entries through rigid material have rounded edges		P
3.10 (5.2.8)	Insulating bushings:		P
	- suitably fixed		P
	- material in bushings		P
	- material not likely to deteriorate		P
	- tubes or guards made of insulating material		P
3.10 (5.2.9)	Locking of screwed bushings		N/A
3.10 (5.2.10)	Cord anchorage:		P
	- covering protected from abrasion		P
	- clear how to be effective		P
	- no mechanical or thermal stress		P
	- no tying of cables into knots etc.		P
	- insulating material or lining		P
3.10 (5.2.10.1)	Cord anchorage for type X attachment:		N/A
	a) at least one part fixed		N/A
	b) types of cable		N/A
	c) no damaging of the cable		N/A
	d) whole cable can be mounted		N/A
	e) no touching of clamping screws		N/A
	f) metal screw not directly on cable		N/A
	g) replacement without special tool		N/A
	Glands not used as anchorage		N/A
	Labyrinth type anchorages		N/A
3.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	Type Y	P
3.10 (5.2.10.3)	Tests:		P
	- impossible to push cable; unsafe		P
	- pull test: 25 times; pull (N) :	60/80/120	P
	- torque test: torque (Nm) :	0,35/0,25	P
	- displacement ≤ 2 mm		P

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Clause	Requirement + Test	Result - Remark	Verdict
	- no movement of conductors		P
	- no damage of cable or cord		P
	- function independent of electrical connection		P
3.10 (5.2.10.4)	Luminaire with/designed for use with supply cord with maximum current of 2A:		N/A
	- Ordinary Class III luminaire supplied with SELV $\leq 25V$ RMS/60V DC		N/A
	- Ordinary Class III luminaire supplied with PELV $\leq 12V$ RMS/30V DC		N/A
	- Other than ordinary Class III luminaire supplied with voltage $\leq 12V$ RMS/30V DC		N/A
	Pull test of 30N		N/A
3.10 (5.2.11)	External wiring passing into luminaire		P
3.10 (5.2.12)	Looping-in terminals		N/A
3.10 (5.2.13)	Wire ends not tinned		P
	Wire ends tinned: no cold flow		P
3.10 (5.2.14)	Mains plug same protection		N/A
	Class III luminaire plug		N/A
	No unsafe compatibility		N/A
3.10 (5.2.15)	Connectors for Class III luminaires (IEC 60603 or IEC 62680)		N/A
3.10 (5.2.16)	Appliance inlets (IEC 60320)		N/A
	Installation couplers (IEC 61535)		N/A
	Appliance inlet or connector systems (IEC 61984)		P
3.10 (5.2.17)	No standardized interconnecting cables properly assembled		N/A
3.10 (5.2.18)	Used plug in accordance with		N/A
	- IEC 60083		N/A
	- other standard		N/A
3.10 (5.3)	Internal wiring		P
3.10 (5.3.1)	Internal wiring of suitable size and type		P
	Through wiring		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- not delivered/ mounting instruction		N/A
	- factory assembled		N/A
	- socket outlet loaded (A)		N/A
	- temperatures	(see Annex 2)	N/A
	Green-yellow for protective earth only		P
3.10 (5.3.1.1)	Internal wiring connected directly to fixed wiring		P
	Cross-sectional area (mm ²).....	See Annex 1	P
	Insulation thickness	See Annex 1	P
	Extra insulation added where necessary		N/A
3.10 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		P
	Cross-sectional area (mm ²).....	See Annex 1	P
3.10 (5.3.1.3)	Double or reinforced insulation for class II		N/A
3.10 (5.3.1.4)	Conductors without insulation		N/A
3.10 (5.3.1.5)	SELV/PELV current-carrying parts		N/A
3.10 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
3.10 (5.3.2)	Sharp edges etc.		P
	No moving parts of switches etc.		N/A
	Joints, raising/lowering devices		N/A
	Telescopic tubes etc.		N/A
	No twisting over 360°		P
3.10 (5.3.3)	Insulating bushings:		P
	- suitable fixed		P
	- material in bushings		P
	- material not likely to deteriorate		P
	- cables with protective sheath		P
3.10 (5.3.4)	Joints and junctions effectively insulated		N/A
3.10 (5.3.5)	Strain on internal wiring		P
3.10 (5.3.6)	Wire carriers		P
3.10 (5.3.7)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		P

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Clause	Requirement + Test	Result - Remark	Verdict
3.10 (5.4)	Test to determine suitability of conductors having a reduced cross-sectional area		N/A
	Under test the temperature of the luminaire wiring insulation not exceed the limits stated in Table 12.2	(see Annex 2)	N/A
	No damage to luminaire wiring after test		N/A
3.10.1 (-)	Cord anchorage if applicable		P
	- pull test: 25 times; pull (N):	60/80/120	P
	- torque test: torque (Nm):	0,25/0,35	P

3.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		
3.11 (8.2.1)	Live parts not accessible		P
	Basic insulated parts not used on the outer surface without appropriate protection		P
	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires	For models with P=B	P
	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires	For models with P=A	P
	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		N/A
	Protection in any position		P
	Double-ended tungsten filament lamp		N/A
	Insulation lacquer not reliable		N/A
	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:		N/A
	- 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

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Clause	Requirement + Test	Result - Remark	Verdict
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		P
3.11 (8.2.6)	Covers reliably secured		P
3.11 (8.2.7)	Luminaire other than below with capacitor > 0,5 μ F not exceed 50 V 1 min after disconnection	Max. 1,41 μ F, Max. 0 V 1 min. after disconnection	P
	Portable luminaire with capacitor > 0,1 μ F (0.25) not exceed 34 V 1 s after disconnection		N/A
	Other luminaires with capacitor > 0,1 μ F (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection		N/A

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Clause	Requirement + Test		Verdict
3.12 (12)	ENDURANCE TEST AND THERMAL TEST		
3.12 (-)	If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and (12.7) after (9.2) before (9.3) as specified in 3.13		—
3.12 (12.2)	Selection of lamps and ballasts		—
	Lamp used according Annex B	(Lamp used see Annex 2)	—
	Control gear if separate and not supplied	(Control gear used see Annex 2)	—
3.12 (12.3)	Endurance test:		P
	a) mounting-position	On a pipe/Flat mounted	—
	b) test temperature (°C)	65	—
	c) total duration (h)	240	—
	d) supply voltage (V)	264	—
	d) if not equipped with control gear, constant voltage/current (V) or (A)	—	—
3.12 (12.3.1d)	d) Class III luminaires powered via information technology communication cable:		N/A
	- voltage under normal operation (V).....	—	—
	- voltage under abnormal operation (V).....	—	—
	e) luminaire ceases to operate		—
	f) luminaire with constant light output function		N/A
3.12 (12.3.2)	After endurance test:		P
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system		N/A
	- marking legible		P
	- no cracks, deformation etc.		P
3.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	P
3.12 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	N/A
3.12 (12.6)	Thermal test (failed lamp control gear condition):		N/A
3.12 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)		—
	- case of abnormal conditions		—
	- electronic lamp control gear		N/A
	- measured winding temperature (°C): at 1,1 Un		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- measured mounting surface temperature (°C) at 1,1 Un		N/A
	- calculated mounting surface temperature (°C)		N/A
	- track-mounted luminaires		N/A
3.12 (12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions		—
	- thermal link		N/A
	- manual reset cut-out		N/A
	- auto reset cut-out		N/A
	- measured mounting surface temperature (°C)		N/A
	- track-mounted luminaires		N/A
3.12 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):		N/A
3.12 (12.7.1)	Luminaire without temperature sensing control		N/A
3.12 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N/A
	Test method 12.7.1.1 or Annex W		—
	Test according to 12.7.1.1:		N/A
	- case of abnormal conditions		—
	- Ballast failure at supply voltage (V)		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
	Test according to Annex W:		N/A
	- case of abnormal conditions		—
	- measured winding temperature (°C): at 1,1 Un		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un		—
	- calculated temperature of fixing point/exposed part (°C)		—
	Ball-pressure test	See Table 3.15 (13.2.1)	N/A
3.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA		N/A
	- case of abnormal conditions		—
	- measured winding temperature (°C): at 1,1 Un		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un		—
	- calculated temperature of fixing point/exposed part (°C)		—
	Ball-pressure test	See Table 3.15 (13.2.1)	N/A
3.12 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA		N/A
	- case of abnormal conditions		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
3.12 (12.7.2)	Luminaire with temperature sensing control		N/A
	- thermal link	Yes ☐ No ☐	—
	- manual reset cut-out	Yes ☐ No ☐	—
	- auto reset cut-out	Yes ☐ No ☐	—
	- case of abnormal conditions		—
	- highest measured temperature of fixing point/ exposed part (°C):		—
	Ball-pressure test:	See Table 3.15 (13.2.1)	N/A
3.12.1 (-)	Temperature reduction if for outdoor use only		N/A
3.12.2 (-)	(See above)		—
3.12.3 (-)	Glass covers used within the thermal limits declared by the glass manufacturer		P
5.12.1 (-)	Reduction 10 °C of measured temperatures if for outdoor use		N/A
5.12.2 (-)	Glass covers used within the thermal limits		P

3.13 (9)	RESISTANCE TO DUST AND MOISTURE		
3.13.1 (-)	If IP > IP 20 the order of tests as specified in clause 3.12		P
3.13 (9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP	IP66	—
	- mounting position during test	On a pipe/Flat mounted	—
	- fixing screws tightened; torque (Nm)	2/3 * torque value indicated in Cl.4.12 of IEC 60598-1	—
	- tests according to clauses	9.2.2 and 9.2.7	—
	- electric strength test afterwards		P

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Clause	Requirement + Test	Result - Remark	Verdict
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire		P
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		P
	c.1) For luminaires without drain holes – no water entry		P
	c.2) For luminaires with drain holes – no hazardous water entry		N/A
	d) no water in watertight, pressure watertight, high pressure and temperature water jet-proof or high pressure and cold water jet-proof luminaire		N/A
	e) no contact with live parts (IP 2X)		N/A
	e) no entry into enclosure (IP 3X and IP 4X)		N/A
	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)		N/A
	f) no trace of water on part of lamp requiring protection from splashing water		N/A
	g) no damage of protective shield or glass envelope		P
3.13 (9.3)	Humidity test 48 h		P

3.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		
3.14 (10.2.1)	Insulation resistance test		P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø		—
	Insulation resistance (MΩ)		—
	SELV/PELV:		N/A
	- between current-carrying parts of different polarity :		N/A
	- between current-carrying parts and mounting surface		N/A
	- between current-carrying parts and metal parts of the luminaire		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A
	- Insulation bushings as described in Section 5		N/A
	Other than SELV/PELV:		P
	- between live parts of different polarity		N/A
	- between live parts and mounting surface	> 100 MΩ	P

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	- between live parts and metal parts	> 100 MΩ	P
	- between live parts of different polarity through action of a switch		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A
	- Insulation bushings as described in Section 5		N/A
3.14 (10.2.2)	Electric strength test		P
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V)		P
	SELV/PELV:		N/A
	- between current-carrying parts of different polarity :		N/A
	- between current-carrying parts and mounting surface		N/A
	- between current-carrying parts and metal parts of the luminaire		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A
	- Insulation bushings as described in Section 5		N/A
	Other than SELV/PELV:		P
	- between live parts of different polarity		N/A
	- between live parts and mounting surface	Input side of LED driver: 1480 V; Output side of LED driver for SS-200NH-V300BHB, SS-240NH-V300BHB, SS-320NH-V300BHB: 1700 V; Output side of LED driver for SS-680NP-360BH: 1780 V	P
	- between live parts and metal parts	Input side of LED driver: 1480 V; Output side of LED driver for SS-200NH-V300BHB, SS-240NH-V300BHB, SS-320NH-V300BHB: 1700 V; Output side of LED driver for SS-680NP-360BH: 1780 V	P

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	- between live parts of different polarity through action of a switch..... :		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		N/A
	- Insulation bushings as described in Section 5 :		N/A
3.14 (10.3)	Touch current (mA)..... :		N/A
	Protective conductor current (mA)..... :	Max. 0,824 mA	P

3.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		
3.15 (13.2.1)	Ball-pressure test :	See Test Table 3.15 (13.2.1)	N/A
3.15 (13.3.1)	Needle-flame test (10 s)..... :	See Test Table 3.15 (13.3.1)	N/A
3.15 (13.3.2)	Glow-wire test (650°C) :	See Test Table 3.15 (13.3.2)	P
3.15 (13.4)	Proof tracking test (IEC 60112)..... :	See Test Table 3.15 (13.4)	N/A

IEC 60598-2-3							
Clause	Requirement + Test				Result - Remark		Verdict
3.7 (11.2)	TABLE I: Creepage distances and clearances						P
	Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages						P
	Applicable part of IEC 60598-1 Table 11.1.A*, 11.1.B* and 11.2*						P
	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:	B	*	1,5	11.1B	*	2,5	11.1.A
Working voltage (V)					220-240 V		—
PTI					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV)					—		—
Supplementary information: -* means approved input connector, terminal block, LED driver, SPD used							
Distance 2:	B	>3.5	1,5	11.1B	>3,5	2,5	11.1.A
Working voltage (V)					220-240 V		—
PTI					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV)					—		—
Supplementary information: - Approved LED driver, SPD used; - Current-carrying parts in input connector, terminal block to accessible enclosure/supporting surface							
Distance 3:	B	4,8	3,0	11.1B	4,8	3,5	11.1.A
Working voltage (V)					Output side of LED drivers SS-320NH-V300BHB, SS-240NH-V300BHB, SS-200NH-V300BHB: U_{out} : 350 Vdc		—
PTI					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV)					—		—
Supplementary information: - Current-carrying parts in terminal block, LED module to accessible enclosure/supporting surface							
Distance 4:	B	4,8	3,0	11.1B	4,8	3,9	11.1.A
Working voltage (V)					Output side of LED driver SS-680NP-360BH: U_{out} : 390 Vdc		—
PTI					< 600 ☒ ≥ 600 ☐		—
Pulse voltage or U_P if applicable (kV)					—		—
Supplementary information: - Current-carrying parts in terminal block, LED module to accessible enclosure/supporting surface							

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

IEC 60598-2-3							
Clause	Requirement + Test				Result - Remark		Verdict
3.7 (11.2)	TABLE II: Creepage distances and clearances						N/A
Minimum distances (mm) for a.c. higher than 30 kHz sinusoidal voltages							
Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2							
Distances	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:							
Working voltage (V)							—
Frequency if applicable (kHz)							—
PTI					< 600 ☐ ≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV)							—
Supplementary information:							
Distance 2:							
Working voltage (V)							—
Frequency if applicable (kHz)							—
PTI					< 600 ☐ ≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV)							—
Supplementary information:							
Distance 3:							
Working voltage (V)							—
Frequency if applicable (kHz)							—
PTI					< 600 ☐ ≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV)							—
Supplementary information:							

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

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

3.15 (13.2.1)	TABLE: Ball Pressure Test of Thermoplastics				N/A
Allowed impression diameter (mm) :			2		—
Object/ Part No./ Material		Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)	
Supplementary information: —					

3.15 (13.3.1)	TABLE: Needle-flame test				N/A
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Supplementary information: —					

3.15 (13.3.2)	TABLE: Resistance to heat and fire - Glow wire tests						P
Object/ Part No./ Material	Manufacturer/ trademark	Glow wire test (°C)					Verdict
		650		750		850	
		te	ti	te	ti		
LED lens	—	0	0	—	—	—	P
Plastic reflector	—	0	0	—	—	—	P
Ignition of the specified layer placed underneath the test specimen (Yes/No)..... :							No
Supplementary information: —							

3.15 (13.4)	TABLE: Proof tracking test				N/A
Test voltage PTI		175 V			—
Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 drops without failure on three places or on three specimens			Verdict
Supplementary information:					

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

ANNEX 1	TABLE: Critical components information	
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Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Supply cord used for models with DD=00, PH	A	Ningbo Liansheng Wire & Cable Co., Ltd.	H05RN-F, H07RN-F	3 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40033764
Alternative	D	Dongguan Wandu Cable Co., Ltd.	H05RN-F, H07RN-F	3 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40052148
Alternative	D	Zhejiang Jinniu Cable Co., Ltd	H05RN-F, H07RN-F	3 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40028195
Alternative	D	Foshan Defang Cable Co., Ltd.	H05RN-F, H07RN-F	3 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40054523
Alternative	D	Guangdong Huasheng Electrical Appliances Co., Ltd.	H05RN-F, H07RN-F	3 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40016788
Alternative	D	Interchangeable	H05RN-F, H07RN-F	3 x 1,0 mm ²	EN 50525-2-21: 2011	KEMA or other EU certification marks
Supply cord used for models with DD=DV	A	Ningbo Liansheng Wire & Cable Co., Ltd.	H07RN-F	5 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40033764
Alternative	D	Dongguan Wandu Cable Co., Ltd.	H07RN-F	5 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40052148
Alternative	D	Zhejiang Jinniu Cable Co., Ltd	H07RN-F	5 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40028195
Alternative	D	Foshan Defang Cable Co., Ltd.	H07RN-F	5 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40054523
Alternative	D	Guangdong Huasheng Electrical Appliances Co., Ltd.	H07RN-F	5 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40016788
Alternative	D	Interchangeable	H07RN-F	5 x 1,0 mm ²	EN 50525-2-21: 2011	KEMA or other EU certification marks
Lead wire of LED modules	A	Ningbo Liansheng Wire & Cable Co., Ltd.	H07RN-F	4 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40033764
Alternative	D	Dongguan Wandu Cable Co., Ltd.	H07RN-F	4 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40052148
Alternative	D	Zhejiang Jinniu Cable Co., Ltd	H07RN-F	4 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40028195

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

Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Alternative	D	Foshan Defang Cable Co., Ltd.	H07RN-F	4 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40054523
Alternative	D	Guangdong Huasheng Electrical Appliances Co., Ltd.	H07RN-F	4 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40016788
Alternative	D	Interchangeable	H07RN-F	4 x 1,0 mm ²	EN 50525-2-21: 2011	KEMA or other EU certification marks
Input connector	B	Guangdong Ojun Technology Co., Ltd	M29 Series	450 V, 16 A, 0,75-2,5 mm ² , 155 °C	EN 61984: 2009 EN 60998-1: 2004 EN 60998-2-1: 2004	TUV SUD B 094998 0005 Rev.05
Alternative	D	GREENWAY	895	500 Vac, 20 A, T150	IEC 61984: 2008	DEKRA 35-118788
Alternative	D	Yuyao Sineyi Electronic Technology Co., Ltd.	M29, M29-3	450 Vac, 16 A	EN 61984: 2009 EN 60998-1: 2004 EN 60998-2-1: 2004	TÜV SÜD B 092724 0011
SPD (with input/output supply cable)	B	Shenzhen Zhongyuan Technology Co., Ltd.	ZYS-S10WLED	Un: 100-277 V, fn: 50/60 Hz, Rated load current: 5 A, Uc: 350 V, In: 5 kA, I _{max} : 10 kA, Uoc: 10 kV, Up: 1,5 kV ta: 85 °C, IP67	IEC 61643-11: 2011 EN 61643-11: 2012 + A11	TUV Rh R 50477550
Alternative	D	Shenzhen Zhongyuan Technology Co., Ltd.	ZYS-S20WLED	Un: 100-277 V, fn: 50/60 Hz, Rated load current: 5 A, Uc: 350 V, In: 10 kA, Uoc: 20 kV, Up: 1,5 kV ta: 85 °C, IP67	IEC 61643-11: 2011 EN 61643-11: 2012 + A11	TUV Rh R 50477550
Input terminal block	B	Guangdong Ojun Technology Co., Ltd.	OJ-821 series, OJ-831 series, OJ-841 series, OJ-851 series	450 V, 24 A, 0,5-2,5 mm ² , 110 °C	EN 60998-2-2: 2004 EN 60998-1: 2004	ENEC 05 35-111909
Output terminal block for models with P=B	B	Heavy Power Co., Ltd.	PA9	450 V, 24 A, 1,0-2,5 mm ² , 110 °C	EN 60998-2-1: 2004 EN 60998-1: 2004	VDE 40016425

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

Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Output connector for models with P=A	B	Ningbo Jinwei Electrical	JN002(male, female)	400 V, 16 A	EN 61984: 2009	VDE 40038746
Terminal block for dimming wire of LED driver	B	Heavy Power Co., Ltd.	PA9	450 V, 24 A, 1,0-2,5 mm ² , 110 °C	EN 60998-2-1: 2004 EN 60998-1: 2004	VDE 40016425
LED	C	Shenzhen Tongyifang Optoelectronic Technology Co., Ltd.	TS1-H50YL-0801 (TYF 5050)	Vf: 24 V, If: 125 mA, CCT: 2700-6500 K	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020 IEC 62031: 2018 IEC TR 62778: 2014	Tested in appliance
LED module PCB	B	Shenzhen Shengdafeng Electronic Technology Co Ltd.	SDF-L	V-0, 130 °C, metal base	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	Tested in appliance and UL E502850
Alternative	D	Shenzhen Mingsihai Electronic Technology Co Ltd	MSH-L, MSH-L1(ASP1)	V-0, 130 °C, metal base	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL E495831
Alternative	D	Lianmeng Electronics Huiyang Co Ltd	LM-6	V-0, 130 °C, metal base	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL E469262
Alternative	D	Shenzhen Mingyu Circuit Co Ltd	MY-L	V-0, 130 °C, metal base	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL E503093

IEC 60598-2-3						
Clause	Requirement + Test			Result - Remark		Verdict
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Alternative	D	Jiangxi Huashengtai Technology Industry Co., Ltd	HST-L(ASP1)	V-0, 130 °C, metal base	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL E535958
Alternative	D	Shenzhen Xinlongye Electronic Technology Co Ltd	XLY-01	V-0, 130 °C, metal base	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL E496651
Alternative	D	Jiangxi Nailide Circuit Co., Ltd	NLD-L	V-0, 130 °C, metal base	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL E479351
LED lens	B	Formosa Idemitsu Petrochemical Corp	LEV2200KL(f1)	PC, HB	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	Tested in appliance and UL E238753
NEMA Socket	B	Shanghai Long-Join Intelligent Technology Inc	JL-240TXA-16	Power lead rating: 480 VAC, Max.15 A; Signal lead rating: 30 VDC, Max. 0,25 A; -40 to 70 °C	IEC 61984: 2008	DEKRA NL-88578
Alternative	D	Zhejiang Lead Top Electrical Co., Ltd.	LT605R, LT605, LT625R, LT625	Power lead rating: 480 VAC, Max.15 A; -40 to 70 °C	IEC 61984: 2008	DEKRA NL-108900/M1
Earthing wire	A	DONGGUAN TRIUMPHCABLE CO LTD	1015	600 V, 14-20 AWG, 105 °C	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	Tested in appliance and UL E249743

IEC 60598-2-3						
Clause	Requirement + Test			Result - Remark		Verdict
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Alternative	D	DONGGUAN TAWANG ELECTRONICS CO LTD	1015	600 V, 14-20 AWG, 105 °C	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL E479307
Alternative	D	Interchangeable	1015	600 V, 14-20 AWG, 105 °C	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL or other EU certification marks
Lead wire of NEMA socket	A	DONGGUAN TRIUMPHCABLE CO LTD	1015	600 V, 14-20 AWG, 105 °C	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	Tested in appliance and UL E249743
Alternative	D	DONGGUAN TAWANG ELECTRONICS CO LTD	1015	600 V, 14-20 AWG, 105 °C	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL E479307
Alternative	D	Interchangeable	1015	600 V, 14-20 AWG, 105 °C	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL or other EU certification marks
Input wire of LED driver for models with P=A	A	DONGGUAN ZHIHE ELECTRICAL CABLE TECH CO LTD	1332	300 V, 200 °C, 14-20 AWG	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	Tested in appliance and UL E258239
Alternative	D	Interchangeable	1332	300 V, 200 °C, 14-20 AWG	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL or other EU certification marks

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

Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Input wire of LED driver for models with P=B	A	Ningbo Liansheng Wire & Cable Co., Ltd.	H05RN-F, H07RN-F	3 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40033764
Alternative	D	Dongguan Wandu Cable Co., Ltd.	H05RN-F, H07RN-F	3 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40052148
Alternative	D	Zhejiang Jinniu Cable Co., Ltd.	H05RN-F, H07RN-F	3 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40028195
Alternative	D	Foshan Defang Cable Co., Ltd.	H05RN-F, H07RN-F	3 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40054523
Alternative	D	Guangdong Huasheng Electrical Appliances Co., Ltd.	H05RN-F, H07RN-F	3 x 1,0 mm ²	EN 50525-2-21: 2011	VDE 40016788
Alternative	D	Interchangeable	H05RN-F, H07RN-F	3 x 1,0 mm ²	EN 50525-2-21: 2011	KEMA or other EU certification marks
Output wire of LED driver	A	DONGGUAN ZHIHE ELECTRICAL CABLE TECH CO LTD	1332	300 V, 200 °C, 14-20 AWG	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	Tested in appliance and UL E258239
Alternative	D	Interchangeable	1332	300 V, 200 °C, 14-20 AWG	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL or other EU certification marks
dimming wire of LED driver	A	DONGGUAN ZHIHE ELECTRICAL CABLE TECH CO LTD	1332	300 V, 200 °C, 14-20 AWG	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	Tested in appliance and UL E258239
Alternative	D	Interchangeable	1332	300 V, 200 °C, 14-20 AWG	IEC 60598-2-3: 2002 + A1: 2011 IEC 60598-2-5: 2015 IEC 60598-1: 2020	UL or other EU certification marks

IEC 60598-2-3						
Clause	Requirement + Test			Result - Remark		Verdict
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
LED driver	B	Shenzhen Sosen Electronics Co., Ltd	SS-320NH-V300BHB	Input: 100-277 VAC, 50/60 Hz, Max. 3,8 A; Output: 180-300 Vdc, 0,4-1,5 A, Max. 320 W, Uout: 350 Vdc, ta: 50 °C @100-200 V, ta: 60 °C @200-277 V, tc: 90 °C, Class I construction, auto-wound, built-in type	EN 61347-1: 2015 + A1: 2021 EN 61347-2-13: 2014 + A1:2017 EN IEC 62384: 2020	ENEC 25 U6 083805 0203 Rev.00
LED driver	B	Shenzhen Sosen Electronics Co., Ltd	SS-240NH-V300BHB	Input: 100-277 VAC, 50/60 Hz, Max. 2,9 A; Output: 180-300 Vdc, 0,3-1,2 A, Max. 240 W, Uout: 350 Vdc, ta: 50 °C @100-200 V, ta: 60 °C @200-277 V, tc: 90 °C, Class I construction, auto-wound, built-in type	EN 61347-1: 2015 + A1: 2021 EN 61347-2-13: 2014 + A1:2017 EN IEC 62384: 2020	ENEC 25 U6 083805 0203 Rev.00
LED driver	B	Shenzhen Sosen Electronics Co., Ltd	SS-200NH-V300BHB	Input: 100-277 VAC, 50/60 Hz, Max. 2,4 A; Output: 180-300 Vdc, 0,25-1,0 A, Max. 200 W, Uout: 350 Vdc, ta: 50 °C @100-200 V, ta: 60 °C @200-277 V, tc: 90 °C, Class I construction, auto-wound, built-in type	EN 61347-1: 2015 + A1: 2021 EN 61347-2-13: 2014 + A1:2017 EN IEC 62384: 2020	ENEC 25 U6 083805 0203 Rev.00
Description:	For SS-320NH-V300BHB, SS-240NH-V300BHB, SS-200NH-V300BHB: No insulation is maintained between input circuit and output circuit. Basic insulation is maintained between input circuit/output circuit and dimming & Aux circuit.					

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

Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
LED driver	B	Shenzhen Sosen Electronics Co., Ltd	SS-680NP-360BH	Input: 100-277 VAC, 50/60 Hz, Max. 6,7 A; Output: 210-360 Vdc, 0,35-2,83 A, Max. 680 W, Uout: 390 Vdc, ta: 45 °C @120-132 V, ta: 55 °C @132-277 V, tc: 90 °C, IP67, Class I, auto-wound, independent type	EN 61347-1: 2015 + A1: 2021 EN 61347-2-13: 2014 + A1:2017 EN IEC 62384: 2020	ENEC 25
Description:		For SS-680NP-360BH: No insulation is maintained between input circuit and output circuit. Basic insulation is maintained between input circuit/output circuit and dimming & Aux circuit.				
Heat-shrinkable tube	A	GUANGZHOU KAIHENG NEW MATERIAL CO LTD	K-102	600 V, 125 °C	IEC 60598-2-3: 2002 + A1: 2011	Tested in appliance and UL E321827
Alternative	D	GUANGZHOU KAIHENG NEW MATERIAL CO LTD	K-102(CB)	300 V, 125 °C	IEC 60598-2-3: 2002 + A1: 2011	UL E321827
Alternative	D	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2	600 V, 125 °C	IEC 60598-2-3: 2002 + A1: 2011	UL E214175
Alternative	D	SHENZHEN WOLIDA TRADING CO LTD	RSFR	300 V, 125 °C	IEC 60598-2-3: 2002 + A1: 2011	UL E329530
Alternative	D	SHENZHEN WOLIDA TRADING CO LTD	RSFR-H	600 V, 125 °C	IEC 60598-2-3: 2002 + A1: 2011	UL E329530
Supplementary information: ¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039. 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						

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

ANNEX 2	TABLE: Thermal tests of Section 12						
	Type reference	AOK-600WHMA-NV-A5-PH-6570-T2-A with plug-in photo control cap	—				
	Lamp used.....	Non-user replaceable LEDs	—				
	Lamp control gear used	SS-320NH-V300BHB * 2 pcs	—				
	Mounting position of luminaire	On a pipe	—				
	Supply wattage (W)	240 V: 584 W; 254,4 V: 584 W	—				
	Supply current (A)	240 V: 2,48 A; 254,4 V: 2,35 A	—				
	Temperatures in test 1 - 4 below are corrected for ta (°C)	55	—				
	- abnormal operating mode	---	—				
3.12 (12.4)	- test 1: rated voltage	240 V	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	240 V x 1,06 = 254,4 V	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	---	—				
	Through wiring or looping-in wiring loaded by a current of A during the test	---	—				
3.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage	---	—				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Input supply cable (inside, near input connector)	55	--	70,2	--	105	--	--
Input connector	55	--	69,7	--	155	--	--
Input supply cable clamped by cord anchorage (inside)	55	--	73,1	--	90	--	--
Input wire of SPD	55	--	69,8	--	90	--	--
ta of SPD	55	70,3	70,2	--	85	--	--
Output wire of SPD	55	--	69,6	--	90	--	--
Terminal block (input side of LED driver)	55	--	69,9	--	110	--	--

IEC 60598-2-3							
Clause	Requirement + Test			Result - Remark			Verdict
Input wire of LED driver	55	--	70,8	--	200	--	--
tc of LED driver	55	77,2	77,1	--	90	--	--
Output wire of LED driver	55	--	57,9	--	200	--	--
Terminal block (output side of LED driver)	55	--	74,2	--	110	--	--
Lead wire of NEMA socket	55	--	76,9	--	105	--	--
Contact between NEMA socket and plug-in photo control cap	55	--	74,4	--	70+5	--	--
Output connector (black)	55	--	75,0	--	Ref.	--	--
Lead wire of LED module	55	--	100,0	--	90	--	--
LED module PCB	55	--	112,7	--	130	--	--
Mounting surface	55	--	71,6	--	90	--	--
Glass surface (internal)	55	--	102,9	--	Ref.	--	--
Glass surface (external)	55	--	95,0	--	Ref.	--	--
Supplementary information: --							

ANNEX 2	TABLE: Thermal tests of Section 12		
	Type reference	AOK-600WHMA-NV-A5-PH-6570-T2-B with NEMA shorting cap	---
	Lamp used.....	Non-user replaceable LEDs	---
	Lamp control gear used	SS-320NH-V300BHB * 2 pcs	---
	Mounting position of luminaire	Flat mounted	---
	Supply wattage (W)	240 V: 581 W; 254,4 V: 583 W	---
	Supply current (A)	240 V: 2,46 A; 254,4 V: 2,33 A	---
	Temperatures in test 1 - 4 below are corrected for ta (°C)	55	---
	- abnormal operating mode	---	---
3.12 (12.4)	- test 1: rated voltage	240 V	---
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	240 V x 1,06 = 254,4 V	---
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	---	---

IEC 60598-2-3							
Clause	Requirement + Test				Result - Remark		Verdict
	Through wiring or looping-in wiring loaded by a current of A during the test :				---		—
3.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage :				---		—
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
ta of SPD	55	77,5	77,5	--	85	--	--
tc of LED driver	55	88,2	88,2	--	90	--	--
Contact between NEMA socket and NEMA shoring cap	55	--	66,7	--	70	--	--
Supplementary information: --							

ANNEX 2	TABLE: Thermal tests of Section 12			
	Type reference	AOK-480WHMA-NV-A5-PH-6570-T2-B with plug-in photo control cap		—
	Lamp used.....	Non-user replaceable LEDs		—
	Lamp control gear used	SS-240NH-V300BHB * 2 pcs		—
	Mounting position of luminaire	On a pipe		—
	Supply wattage (W)	240 V: 479,4 W		—
	Supply current (A)	240 V: 2,02 A		—
	Temperatures in test 1 - 4 below are corrected for ta (°C)	55		—
	- abnormal operating mode	---		—
3.12 (12.4)	- test 1: rated voltage	240 V		—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	---		—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	---		—
	Through wiring or looping-in wiring loaded by a current of A during the test	---		—
3.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage	---		—

IEC 60598-2-3							
Clause	Requirement + Test				Result - Remark		Verdict
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
ta of SPD	55	75,7	--	--	85	--	--
tc of LED driver	55	86,1	--	--	90	--	--
Supplementary information: --							

ANNEX 2	TABLE: Thermal tests of Section 12						
	Type reference	AOK-400WHMA-NV-A5-PH-6570-T2-B with plug-in photo control cap	—				
	Lamp used.....	Non-user replaceable LEDs	—				
	Lamp control gear used	SS-200NH-V300BHB * 2 pcs	—				
	Mounting position of luminaire	Flat mounted	—				
	Supply wattage (W)	240 V: 383,9 W	—				
	Supply current (A)	240 V: 1,63 A	—				
	Temperatures in test 1 - 4 below are corrected for ta (°C)	55	—				
	- abnormal operating mode	---	—				
3.12 (12.4)	- test 1: rated voltage	240 V	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	---	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	---	—				
	Through wiring or looping-in wiring loaded by a current of A during the test	---	—				
3.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage	---	—				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
ta of SPD	55	70,2	--	--	85	--	--
tc of LED driver	55	78,8	--	--	90	--	--

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

Supplementary information: --

ANNEX 2	TABLE: Thermal tests of Section 12						
	Type reference	:	AOK-600WHMA-NV-A5-PH-6570-T2-B with plug-in photo control cap	—			
	Lamp used.....	:	Non-user replaceable LEDs	—			
	Lamp control gear used	:	SS-680NP-360BH	—			
	Mounting position of luminaire	:	Flat mounted	—			
	Supply wattage (W)	:	240 V: 593,71 W	—			
	Supply current (A)	:	240 V: 2,506 A	—			
	Temperatures in test 1 - 4 below are corrected for ta (°C)	:	55	—			
	- abnormal operating mode	:	---	—			
3.12 (12.4)	- test 1: rated voltage	:	240 V	—			
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	:	---	—			
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	:	---	—			
	Through wiring or looping-in wiring loaded by a current of A during the test	:	---	—			
3.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage	:	---	—			
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
ta of SPD	55	82,6	--	--	85	--	--
tc of LED driver	55	86,5	--	--	90	--	--
Supplementary information: --							

IEC 60598-2-3			
Clause	Requirement + Test		Verdict
ANNEX 3	Screw terminals (part of the luminaire)		
(14)	SCREW TERMINALS		P
(14.2)	Type of terminal..... :	Pillar terminal on LED module PCB	—
	Rated current (A)..... :	Tested in appliance	—
(14.3.2.1)	One or more conductors		P
(14.3.2.2)	Special preparation		N/A
(14.3.2.3)	Terminal size		P
	Cross-sectional area (mm ²)..... :	1,0	—
(14.3.3)	Conductor space (mm)..... :	2,5	P
(14.4)	Mechanical tests		P
(14.4.1)	Minimum distance		P
(14.4.2)	Cannot slip out		P
(14.4.3)	Special preparation		P
(14.4.4)	Nominal diameter of thread (metric ISO thread) :	M2,5	P
	External wiring		N/A
	No soft metal		P
(14.4.5)	Corrosion		P
(14.4.6)	Nominal diameter of thread (mm) :	2,39	P
	Torque (Nm) :	0,4	P
(14.4.7)	Between metal surfaces		N/A
	Lug terminal		N/A
	Mantle terminal		N/A
	Pull test; pull (N) :	30 N	P
(14.4.8)	Without undue damage		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
ANNEX 4	Screwless terminals (part of the luminaire)		
(15)	SCREWLESS TERMINALS		N/A
(15.2)	Type of terminal..... :		—
	Rated current (A)..... :		—
(15.3.1)	Material		N/A
(15.3.2)	Clamping		N/A
(15.3.3)	Stop		N/A
(15.3.4)	Unprepared conductors		N/A
(15.3.5)	Pressure on insulating material		N/A
(15.3.6)	Clear connection method		N/A
(15.3.7)	Clamping independently		N/A
(15.3.8)	Fixed in position		N/A
(15.3.10)	Conductor size		N/A
	Type of conductor		N/A
(15.5)	Terminals and connections for internal wiring		N/A
(15.5.1)	Mechanical tests		N/A
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples) :		N/A
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples) :		N/A
	Insertion force not exceeding 50 N		N/A
(15.5.1.2)	Permanent connections: pull-off test (20 N)		N/A
(15.5.2)	Electrical tests		N/A
	Voltage drop (mV) after 1 h (4 samples) :		N/A
	Voltage drop of two inseparable joints		N/A
	Number of cycles:		—
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples)..... :		N/A
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples)..... :		N/A
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples) :		N/A
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples) :		N/A
(15.6)	Terminals and connections for external wiring		N/A
(15.6.1)	Conductors		N/A
	Terminal size and rating		N/A

IEC 60598-2-3										
Clause	Requirement + Test					Result - Remark				Verdict
15.6.2	Mechanical tests									N/A
(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N) :									N/A
(15.6.2.2)	Pull test pin or tab terminals (4 samples); pull (N) :									N/A
(15.6.3)	Electrical tests									N/A
	Tests according 15.6.3.1 + 15.6.3.2 in IEC 60598-1									N/A
(15.6.3.1) (15.6.3.2)	TABLE: Contact resistance test / Heating tests									N/A
	Voltage drop (mV) after 1 h									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
	Voltage drop of two inseparable joints									N/A
	Voltage drop after 10th alt. 25th cycle									N/A
	Max. allowed voltage drop (mV) :									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
	Voltage drop after 50th alt. 100th cycle									N/A
	Max. allowed voltage drop (mV) :									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
	Continued ageing: voltage drop after 10th alt. 25th cycle									N/A
	Max. allowed voltage drop (mV) :									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
	Continued ageing: voltage drop after 50th alt. 100th cycle									N/A
	Max. allowed voltage drop (mV) :									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
Supplementary information:										

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT 1 TO TEST REPORT IEC 60598-2-3 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES LUMINAIRES PART 2: PARTICULAR REQUIREMENTS SECTION 3: LUMINAIRES FOR ROAD AND STREET LIGHTING			
Differences according to		EN 60598-2-3:2003 + A1:2011 used in conjunction with EN IEC 60598-1:2021 + A11:2022	
TRF template used.....		EU-GD-IEC60598_2_3V1.0	
Master Attachment		Dated 2024-08-26	
	CENELEC COMMON MODIFICATIONS (EN)		
3.5 (3)	MARKING		
3.5 (3.2.12)	Note 4 deleted		N/A
3.6 (4)	CONSTRUCTION		
4.7 (4.11.6)	Electro-mechanical contact systems: electric strength test at 1 500 V		N/A
3.10 (5)	EXTERNAL AND INTERNAL WIRING		
3.10 (5.2.2)	Cables equal to EN 50525 (all parts)		P
	Paragraph 2 deleted		N/A
	Replace table 5.1 – Supply cord		P
3.12 (12)	ENDURANCE TESTS AND THERMAL TESTS		
3.12 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring		N/A
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		
(3.3)	DK: power supply cords of class I luminaires with label		N/A
(5.2.1)	CY, DK, FI, UK: type of plug		N/A
(5.2.18)	DK: socket-outlets		N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		
(4 & 5)	FR: Shuttered socket-outlets 10/16A		N/A
	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:		N/A

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

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

ATTACHMENT 2 TO TEST REPORT

ATTACHMENT 2 TO TEST REPORT IEC 60598-2-5 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES LUMINAIRES PART 2: PARTICULAR REQUIREMENTS SECTION 5: FLOODLIGHTS			
Differences according to		EN 60598-2-5:2015 used in conjunction with EN IEC 60598-1:2021 + A11:2022	
TRF template used.....		IECEE OD-2020-F2:2020, Ed. 1.1	
Attachment Form No.		EU_GD_IEC60598_2_5G	
Attachment Originator.....		UL(Demko)	
Master Attachment		2022-05-24	
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	CENELEC COMMON MODIFICATIONS (EN)		
5.5 (3)	MARKING		
5.5 (3.2.12)	Note 4 deleted		N/A
5.6 (4)	CONSTRUCTION		
5.6 (4.11.6)	Electro-mechanical contact systems: electric strength test at 1 500 V		N/A
5.10 (5)	EXTERNAL AND INTERNAL WIRING		
5.10 (5.2.2)	Cables equal to EN 50525 (all parts)		P
	Paragraph 2 deleted		N/A
	Replace table 5.1 – Supply cord		P
5.12 (12)	ENDURANCE TESTS AND THERMAL TESTS		
5.12 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring		N/A
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		
(3.3)	DK: power supply cords of class I luminaires with label		N/A
(5.2.1)	CY, DK, FI, UK: type of plug		N/A
(5.2.18)	DK: socket-outlets		N/A
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
(4 & 5)	FR: Shuttered socket-outlets 10/16A		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	FR: Safety requirements for high buildings <i>(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)</i> Glow-wire test for outer parts of luminaires:		N/A
	- 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

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

	Attachment 3: Additional requirement of IEC 62031: 2018 and EN IEC 62031: 2020 + A11: 2021		
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4.2	CLASSIFICATION		P
	built-in; independent; integral	Integral	P
6	Marking		N/A
6.1	Overview		N/A
6.2	Contents of marking for built-in and for independent LED modules		N/A
6.3	Location of marking for built-in LED modules		N/A
6.4	Location of marking for independent LED modules		N/A
6.5	Marking of integral LED modules		N/A
6.6	Durability and legibility of marking		N/A
7	Terminals		N/A
7.1	Integral terminals		N/A
7.2	Terminals other than integral terminals		N/A
8	Earthing		N/A
9	Protection against accidental contact with live parts		N/A
	see 3.11 (8) of this test report		N/A
10	Moisture resistance and insulation		P
	see 3.13. (9 3) and 3.14 (10.2.1) of this report		P
11	Electric strength		P
	see 3.14 (10.2.2) of this report		P
12	Fault conditions		P
12.1	Fault conditions acc. IEC 61347-1, cl. 14		N/A
12.2	Overpower conditions		P
13	Conformity testing during manufacture		N/A
14	Construction		P
	no wood, cotton, silk, paper used as insulation		P
15	Creepage distances and clearances		P
	see 3.7 (11) of this report		P
16	Screws, current-carrying parts and connections		P
17	Resistance to heat, fire and tracking		P

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	see 3.15 (13) of this report		P
18	Resistance to corrosion		N/A
19	Information for luminaire design		N/A
20	Heat management		N/A
21	Photobiological safety		N/A

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

Attachment 4: Detailed Model List

Attachment 4: Detailed Model List					
No.	Model	Power (W)	LED Driver	LED Type	Remark
1	AOK-250WHMA-NV-ZZ-DD-XXYY-BN-P	250	SS-320NH-V300BHB	TYF 5050	Share the same structurally identical property
2	AOK-260WHMA-NV-ZZ-DD-XXYY-BN-P	260			
3	AOK-270WHMA-NV-ZZ-DD-XXYY-BN-P	270			
4	AOK-280WHMA-NV-ZZ-DD-XXYY-BN-P	280			
5	AOK-290WHMA-NV-ZZ-DD-XXYY-BN-P	290			
6	AOK-300WHMA-NV-ZZ-DD-XXYY-BN-P	300			
7	AOK-310WHMA-NV-ZZ-DD-XXYY-BN-P	310			
8	AOK-320WHMA-NV-ZZ-DD-XXYY-BN-P	320			
9	AOK-330WHMA-NV-ZZ-DD-XXYY-BN-P	330	SS-200NH-V300BHB*2pcs		
10	AOK-340WHMA-NV-ZZ-DD-XXYY-BN-P	340			
11	AOK-350WHMA-NV-ZZ-DD-XXYY-BN-P	350			
12	AOK-360WHMA-NV-ZZ-DD-XXYY-BN-P	360			
13	AOK-370WHMA-NV-ZZ-DD-XXYY-BN-P	370			
14	AOK-380WHMA-NV-ZZ-DD-XXYY-BN-P	380			
15	AOK-390WHMA-NV-ZZ-DD-XXYY-BN-P	390			
16	AOK-400WHMA-NV-ZZ-DD-XXYY-BN-P	400	SS-200NH-V300BHB*2pcs		
			SS-240NH-V300BHB*2pcs		
17	AOK-410WHMA-NV-ZZ-DD-XXYY-BN-P	410	SS-240NH-V300BHB*2pcs		
18	AOK-420WHMA-NV-ZZ-DD-XXYY-BN-P	420			
19	AOK-430WHMA-NV-ZZ-DD-XXYY-BN-P	430			
20	AOK-440WHMA-NV-ZZ-DD-XXYY-BN-P	440			
21	AOK-450WHMA-NV-ZZ-DD-XXYY-BN-P	450			
22	AOK-460WHMA-NV-ZZ-DD-XXYY-BN-P	460			
23	AOK-470WHMA-NV-ZZ-DD-XXYY-BN-P	470			
24	AOK-480WHMA-NV-ZZ-DD-XXYY-BN-P	480			
25	AOK-490WHMA-NV-ZZ-DD-XXYY-BN-P	490	SS-320NH-V300BHB*2pcs		
26	AOK-500WHMA-NV-ZZ-DD-XXYY-BN-P	500			
27	AOK-510WHMA-NV-ZZ-DD-XXYY-BN-P	510			
28	AOK-520WHMA-NV-ZZ-DD-XXYY-BN-P	520			
29	AOK-530WHMA-NV-ZZ-DD-XXYY-BN-P	530			
30	AOK-540WHMA-NV-ZZ-DD-XXYY-BN-P	540			
31	AOK-550WHMA-NV-ZZ-DD-XXYY-BN-P	550			
32	AOK-560WHMA-NV-ZZ-DD-XXYY-BN-P	560			
33	AOK-570WHMA-NV-ZZ-DD-XXYY-BN-P	570			
34	AOK-580WHMA-NV-ZZ-DD-XXYY-BN-P	580			
35	AOK-590WHMA-NV-ZZ-DD-XXYY-BN-P	590			
36	AOK-600WHMA-NV-ZZ-DD-XXYY-BN-P	600			

IEC 60598-2-3					
Clause		Requirement + Test		Result - Remark	Verdict
37	AOK-330WHMA-NV-ZZ-DD-XXYY-BN-B	330	SS-680NP-360BH	TYF 5050	Share the same structurally identical property
38	AOK-340WHMA-NV-ZZ-DD-XXYY-BN-B	340			
39	AOK-350WHMA-NV-ZZ-DD-XXYY-BN-B	350			
40	AOK-360WHMA-NV-ZZ-DD-XXYY-BN-B	360			
41	AOK-370WHMA-NV-ZZ-DD-XXYY-BN-B	370			
42	AOK-380WHMA-NV-ZZ-DD-XXYY-BN-B	380			
43	AOK-390WHMA-NV-ZZ-DD-XXYY-BN-B	390			
44	AOK-400WHMA-NV-ZZ-DD-XXYY-BN-B	400			
45	AOK-410WHMA-NV-ZZ-DD-XXYY-BN-B	410			
46	AOK-420WHMA-NV-ZZ-DD-XXYY-BN-B	420			
47	AOK-430WHMA-NV-ZZ-DD-XXYY-BN-B	430			
48	AOK-440WHMA-NV-ZZ-DD-XXYY-BN-B	440			
49	AOK-450WHMA-NV-ZZ-DD-XXYY-BN-B	450			
50	AOK-460WHMA-NV-ZZ-DD-XXYY-BN-B	460			
51	AOK-470WHMA-NV-ZZ-DD-XXYY-BN-B	470			
52	AOK-480WHMA-NV-ZZ-DD-XXYY-BN-B	480			
53	AOK-490WHMA-NV-ZZ-DD-XXYY-BN-B	490			
54	AOK-500WHMA-NV-ZZ-DD-XXYY-BN-B	500			
55	AOK-510WHMA-NV-ZZ-DD-XXYY-BN-B	510			
56	AOK-520WHMA-NV-ZZ-DD-XXYY-BN-B	520			
57	AOK-530WHMA-NV-ZZ-DD-XXYY-BN-B	530			
58	AOK-540WHMA-NV-ZZ-DD-XXYY-BN-B	540			
59	AOK-550WHMA-NV-ZZ-DD-XXYY-BN-B	550			
60	AOK-560WHMA-NV-ZZ-DD-XXYY-BN-B	560			
61	AOK-570WHMA-NV-ZZ-DD-XXYY-BN-B	570			
62	AOK-580WHMA-NV-ZZ-DD-XXYY-BN-B	580			
63	AOK-590WHMA-NV-ZZ-DD-XXYY-BN-B	590			
64	AOK-600WHMA-NV-ZZ-DD-XXYY-BN-B	600			
Description: ZZ = can be any letter to denote manufacturer of LED; and may be replaced by C5 to represent TYF 5050 LED; DD = denotes dimming control, which can be as followings: 00=No sensor provided, PH=Plug-in photocontrol or NEMA short-circuit cap provided, DV=Dimming function & without NEMA socket; XX = can be 27, 30, 35, 40, 50, 57, 60, 65 to denote Color Temperature of LED; e.g. 27=2700K, 30=3000K, 35=3500K, 40=4000K, 50=5000K, 57=5700K, 60=6000K, 65=6500K; YY = can be 70, 80, 90 to denote Color Rendering Index of LED, e.g. 70=CRI 70, 80=CRI 80, 90=CRI 90; BN = can be any letter or number to denote Beam Angle; P = can A or B to denote mounting type, e.g. A=Side Entry, B=Bracket Type					

Attachment 5: Product Photos

Overall view of AOK-600WHMA-NV-A5-PH-6570-T2-A with NEMA shorting cap



Detailed view of NEMA short-circuit cap and socket used for AOK-600WHMA-NV-A5-PH-6570-T2-A
Note: The NEMA short-circuit cap is only for testing purpose.

Attachment 5: Product Photos

Overall view of AOK-600WHMA-NV-A5-PH-6570-T2-A with plug-in photo control cap



Detailed view of plug-in photo control cap and socket used for AOK-600WHMA-NV-A5-PH-6570-T2-A
Note: The NEMA short-circuit cap is only for testing purpose.

Attachment 5: Product Photos



Side view of AOK-600WHMA-NV-A5-PH-6570-T2-A

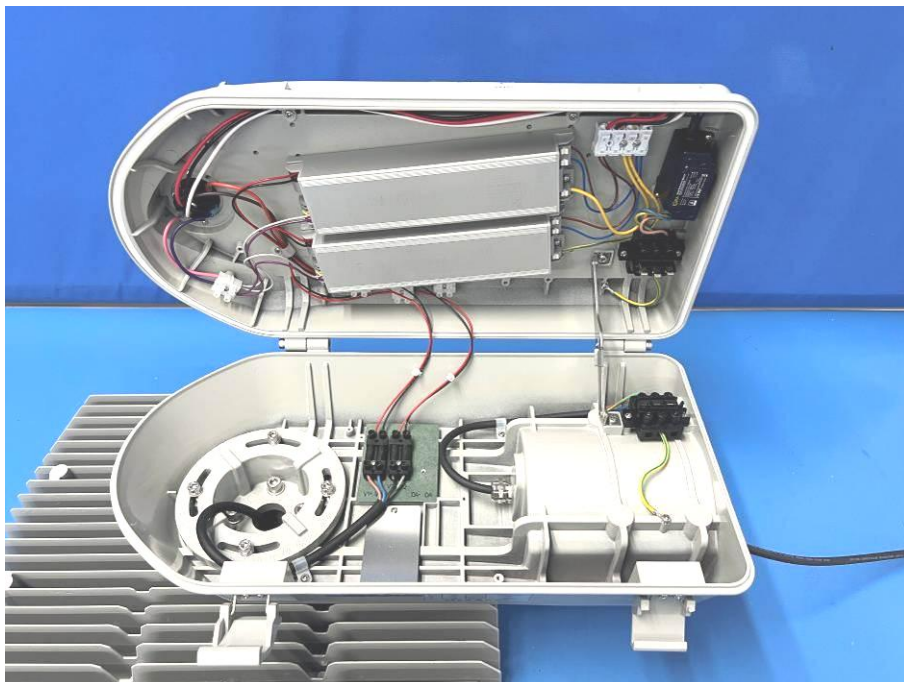


Side view of AOK-600WHMA-NV-A5-PH-6570-T2-A

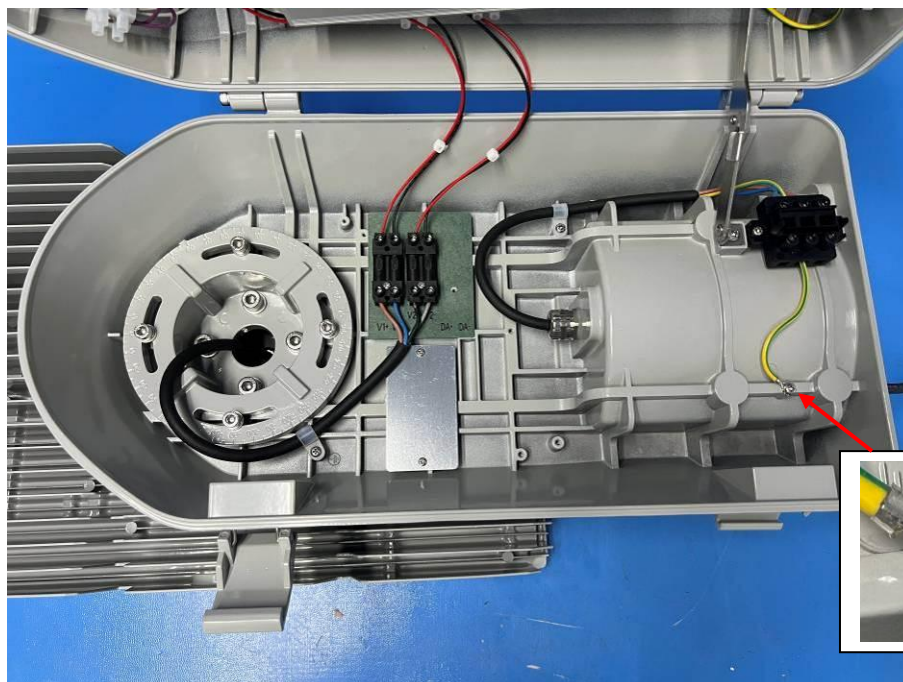
Attachment 5: Product Photos



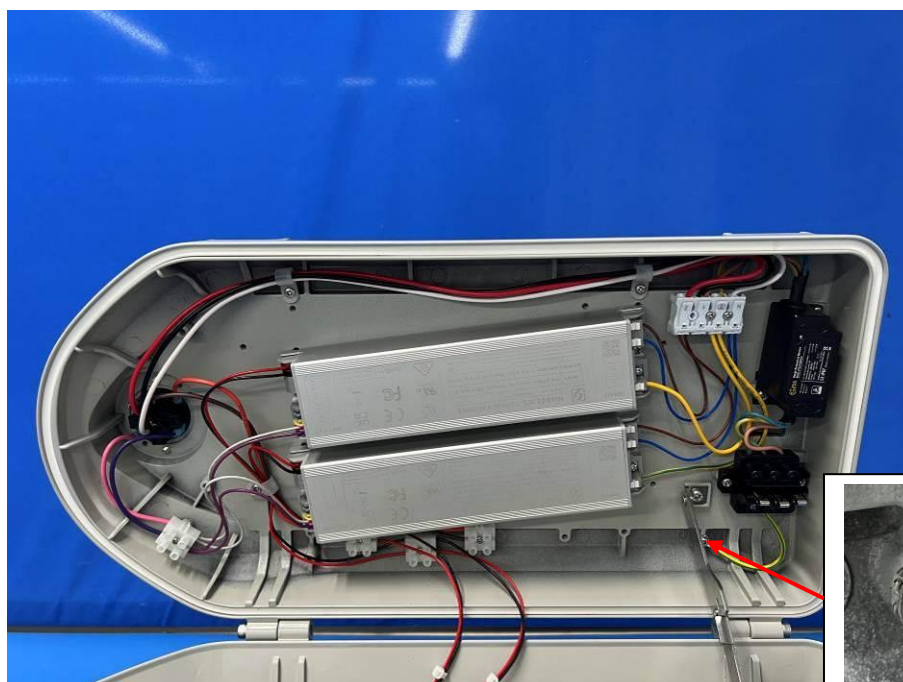
Side view of AOK-600WHMA-NV-A5-PH-6570-T2-A



Internal view of AOK-600WHMA-NV-A5-PH-6570-T2-A

Attachment 5: Product Photos

Internal view of AOK-600WHMA-NV-A5-PH-6570-T2-A



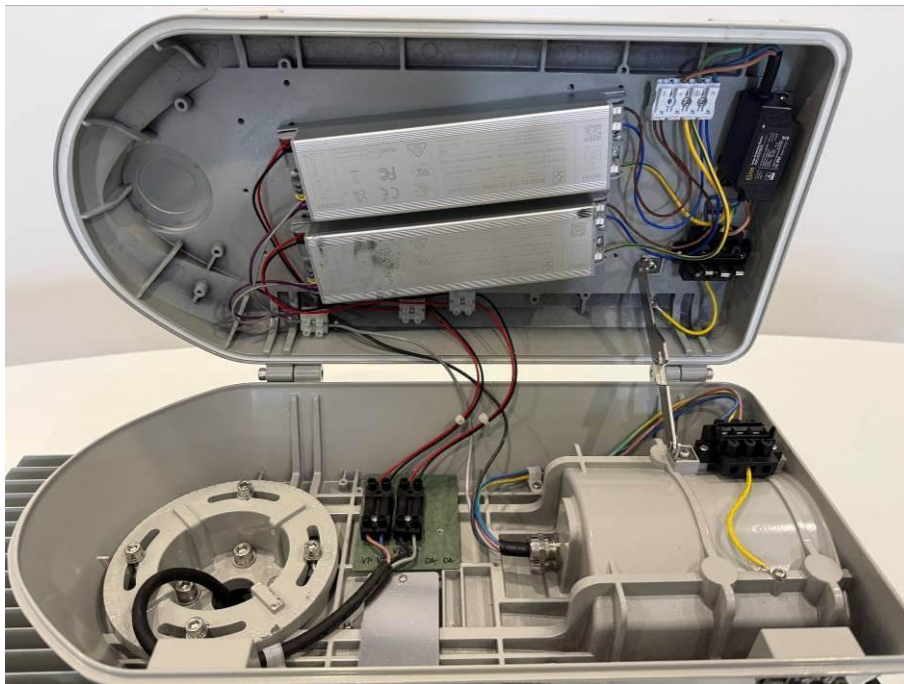
Internal view of AOK-600WHMA-NV-A5-PH-6570-T2-A

Attachment 5: Product Photos

Overall view of AOK-600WHMA-NV-A5-DV-6570-T2-A

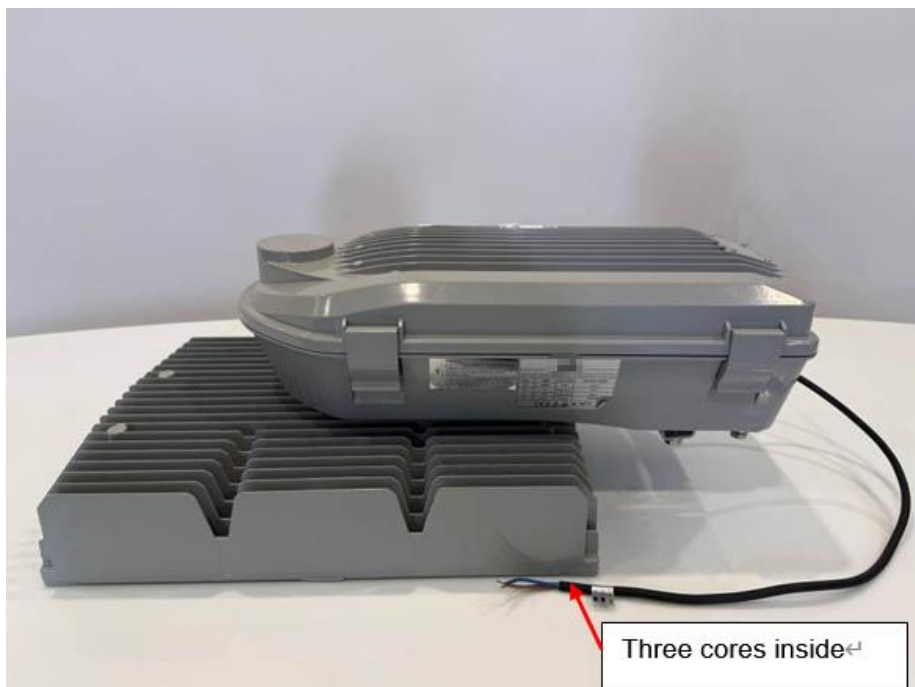


Top view of AOK-600WHMA-NV-A5-DV-6570-T2-A

Attachment 5: Product Photos

Internal view of AOK-600WHMA-NV-A5-DV-6570-T2-A

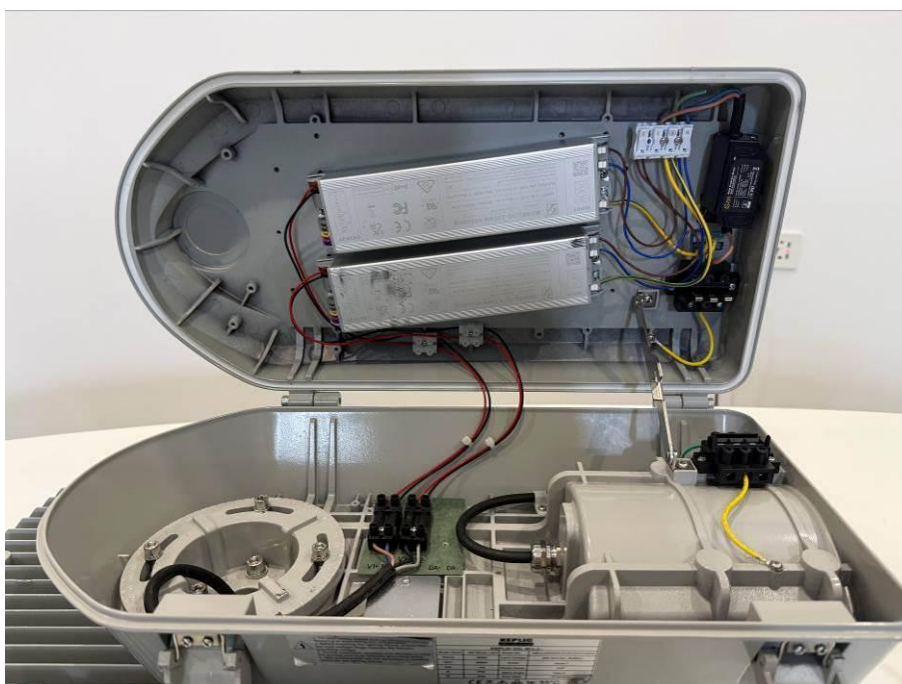
Note: Other constructions for AOK-600WHMA-NV-A5-DV-6570-T2-A are same as AOK-600WHMA-NV-A5-PH-6570-T2-A.



Overall view of AOK-600WHMA-NV-A5-00-6570-T2-A

Attachment 5: Product Photos

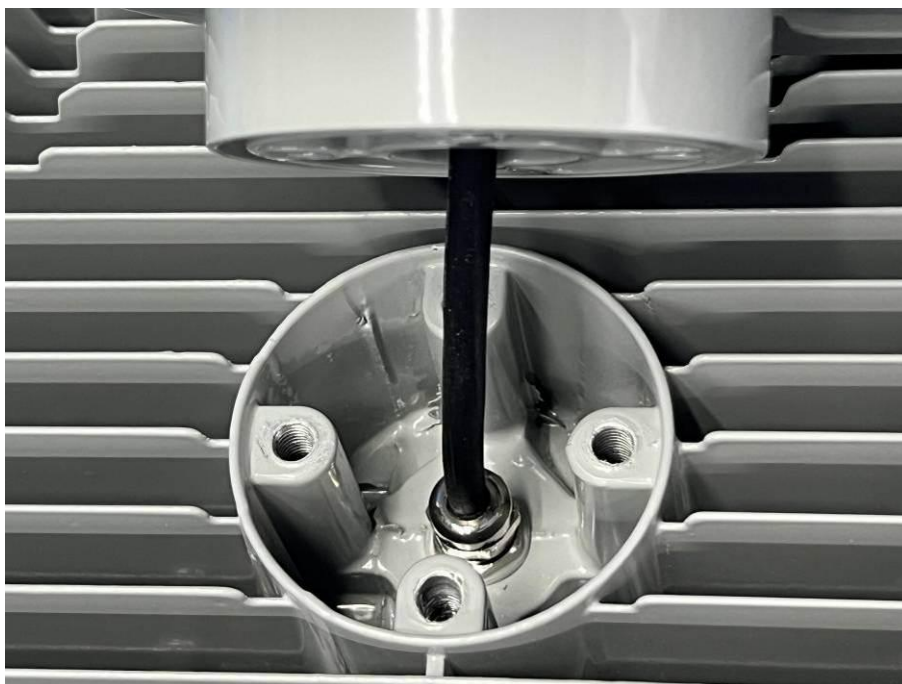
Top view of AOK-600WHMA-NV-A5-00-6570-T2-A



Internal view of AOK-600WHMA-NV-A5-00-6570-T2-A

Note: Other constructions for AOK-600WHMA-NV-A5-00-6570-T2-A are same as AOK-600WHMA-NV-A5-PH-6570-T2-A.

Attachment 5: Product Photos



Internal view of models with P=A



Internal view of models with P=A

Attachment 5: Product Photos

Front panel view of 600W models with P=A



Internal view of 600W models with P=A

Attachment 5: Product Photos



Internal view of 600W models with P=A



Internal view of 600W models with P=A

Attachment 5: Product Photos

Internal view of 600W models with P=A



Overall view of AOK-600WHMA-NV-A5-PH-6570-T2-B with NEMA shorting cap

Attachment 5: Product Photos

Detailed view of NEMA short-circuit cap and socket used for AOK-600WHMA-NV-A5-PH-6570-T2-B
Note: The NEMA short-circuit cap is only for testing purpose.



Overall view of AOK-600WHMA-NV-A5-PH-6570-T2-B with plug-in photo control cap

Attachment 5: Product Photos

Detailed view of plug-in photo control cap and socket used for AOK-600WHMA-NV-A5-PH-6570-T2-B
Note: The NEMA short-circuit cap is only for testing purpose.



Side view of AOK-600WHMA-NV-A5-PH-6570-T2-B

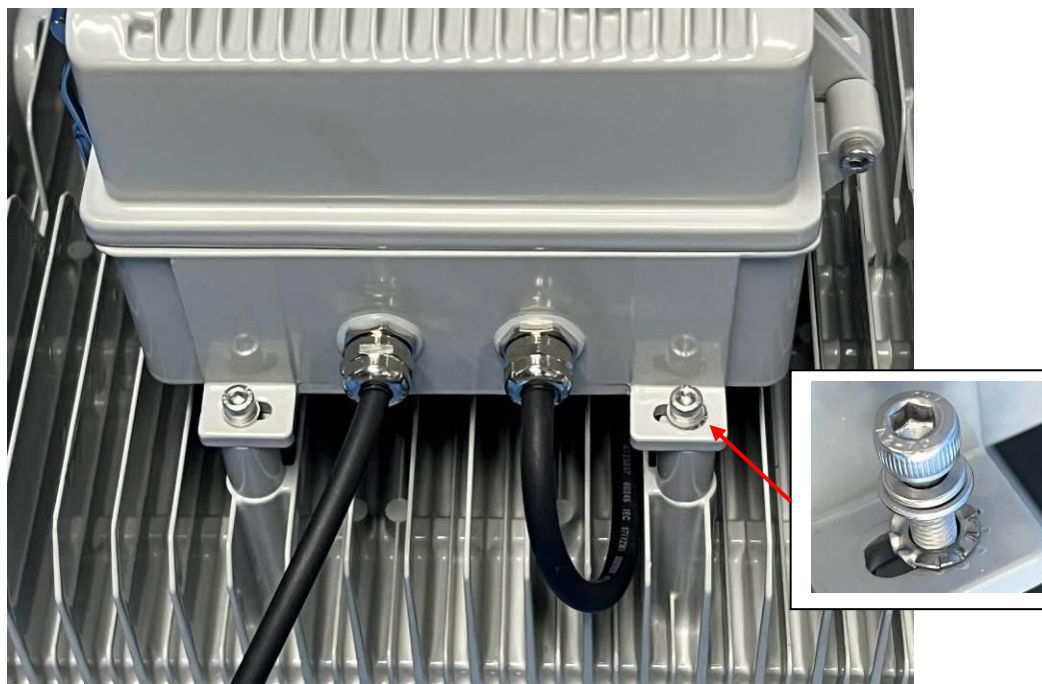
Attachment 5: Product Photos



Side view of AOK-600WHMA-NV-A5-PH-6570-T2-B



Side view of AOK-600WHMA-NV-A5-PH-6570-T2-B

Attachment 5: Product Photos

Side view of AOK-600WHMA-NV-A5-PH-6570-T2-B



Internal view of view of AOK-600WHMA-NV-A5-PH-6570-T2-B

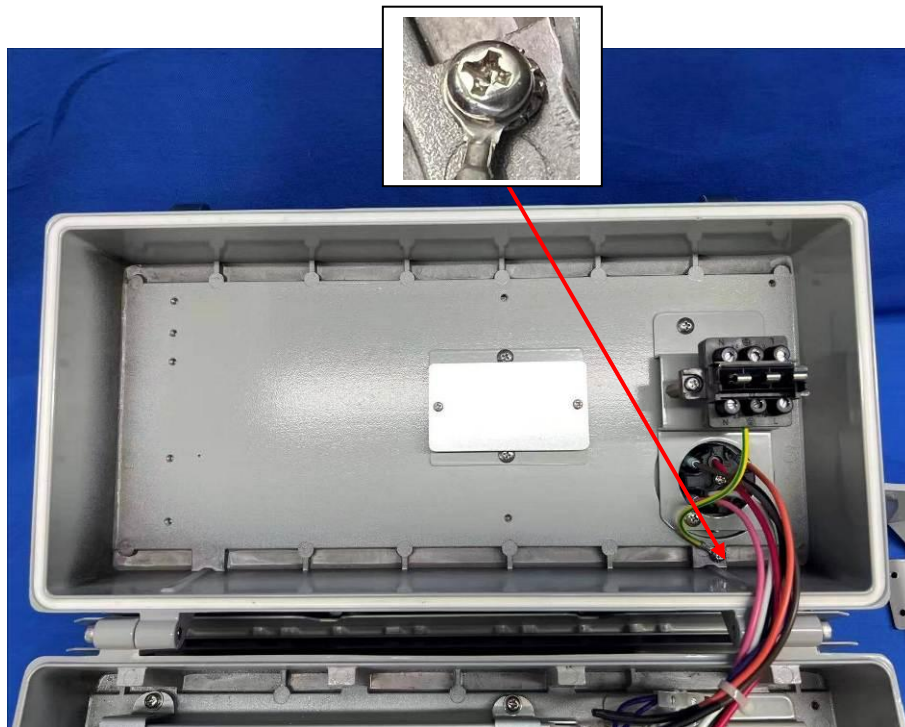
Attachment 5: Product Photos



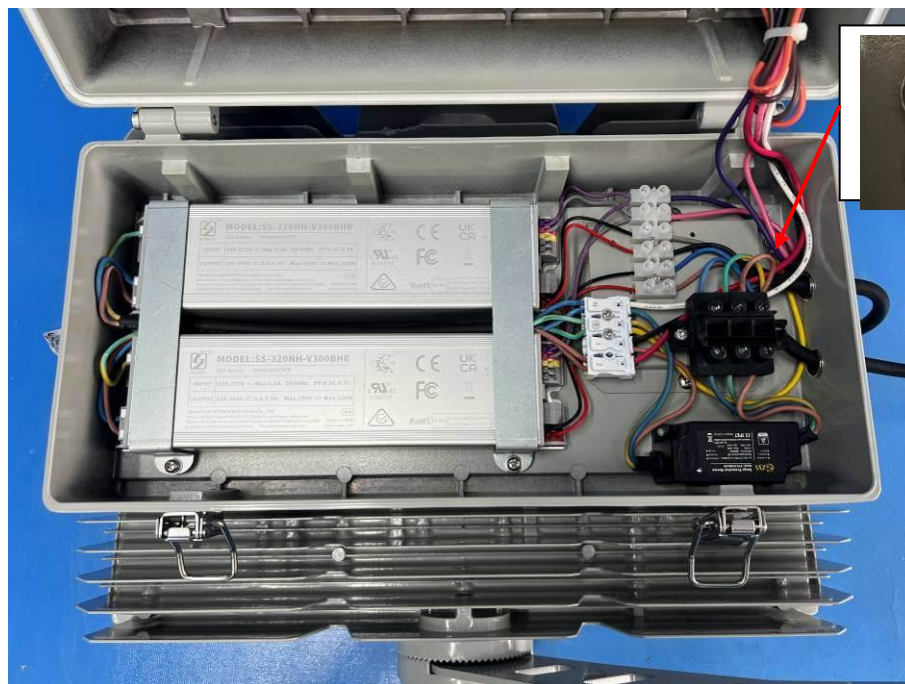
Internal view of view of AOK-600WHMA-NV-A5-PH-6570-T2-B



Internal view of view of AOK-600WHMA-NV-A5-PH-6570-T2-B

Attachment 5: Product Photos

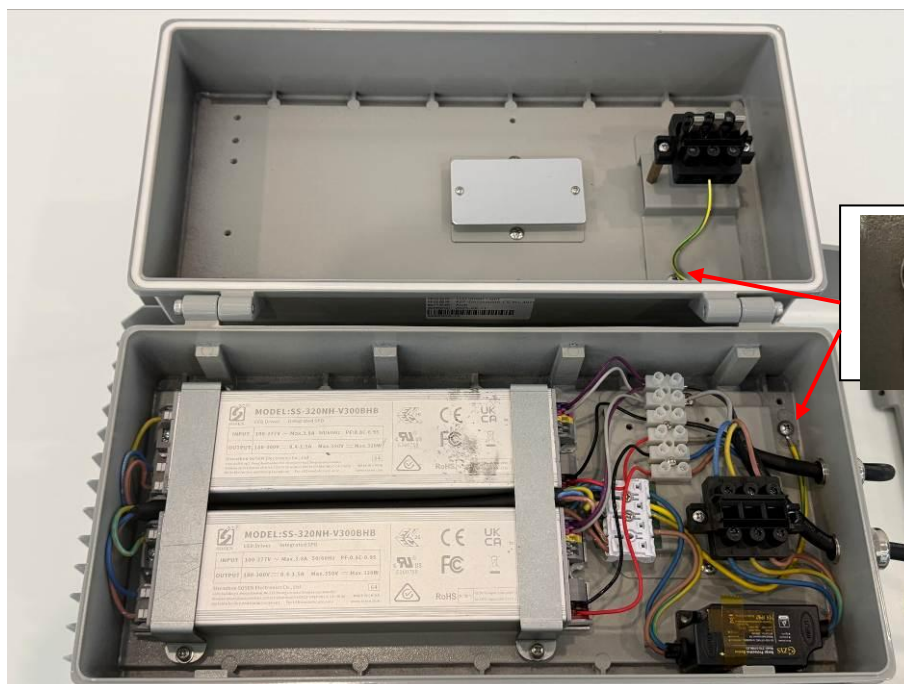
Internal view of view of AOK-600WHMA-NV-A5-PH-6570-T2-B



Internal view of view of AOK-600WHMA-NV-A5-PH-6570-T2-B

Attachment 5: Product Photos


Overall view of AOK-600WHMA-NV-A5-DV-6570-T2-B



Internal view of AOK-600WHMA-NV-A5-DV-6570-T2-B

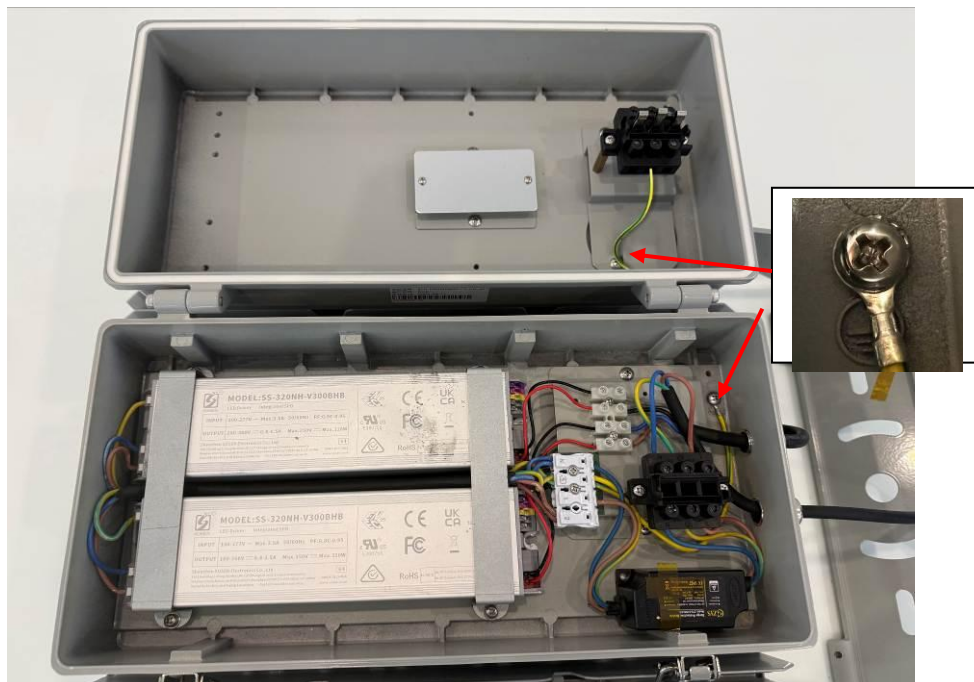
Note: Other constructions for AOK-600WHMA-NV-A5-DV-6570-T2-B are same as AOK-600WHMA-NV-A5-PH-6570-T2-B.

Attachment 5: Product Photos



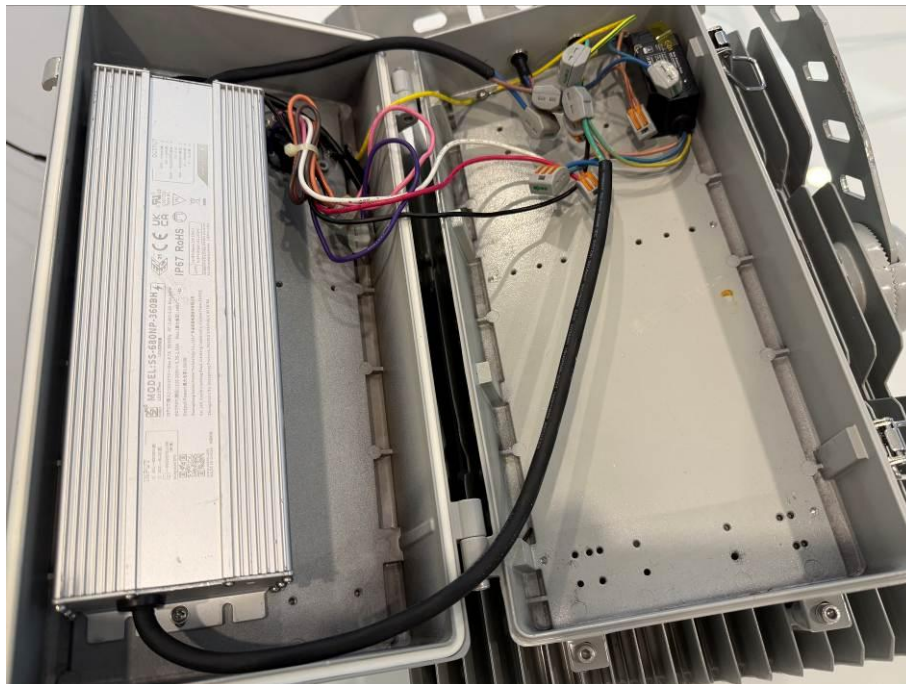
Three cores inside

Overall view of AOK-600WHMA-NV-A5-00-6570-T2-B

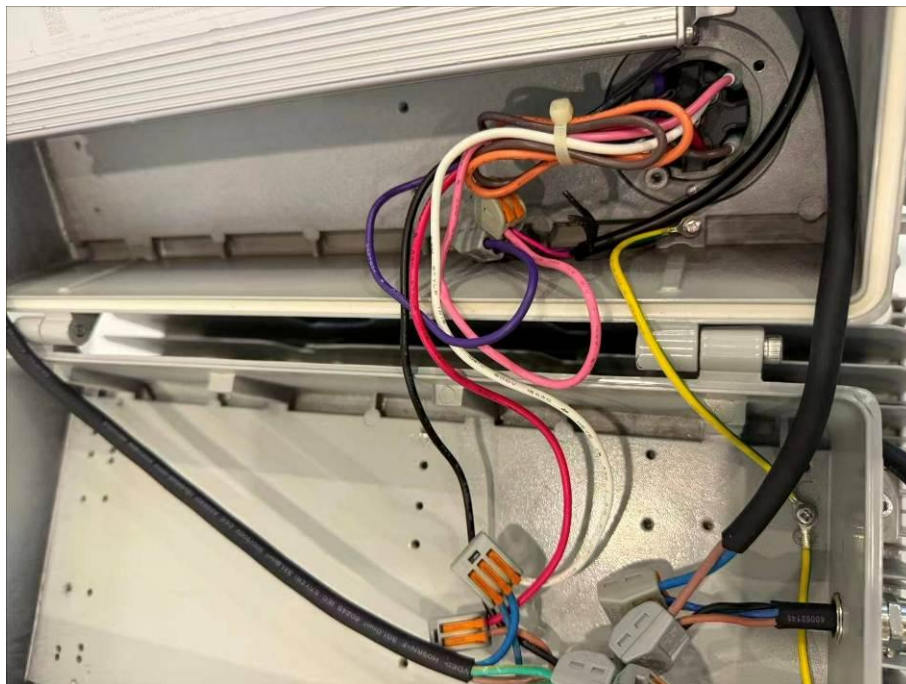


Internal view of AOK-600WHMA-NV-A5-00-6570-T2-B

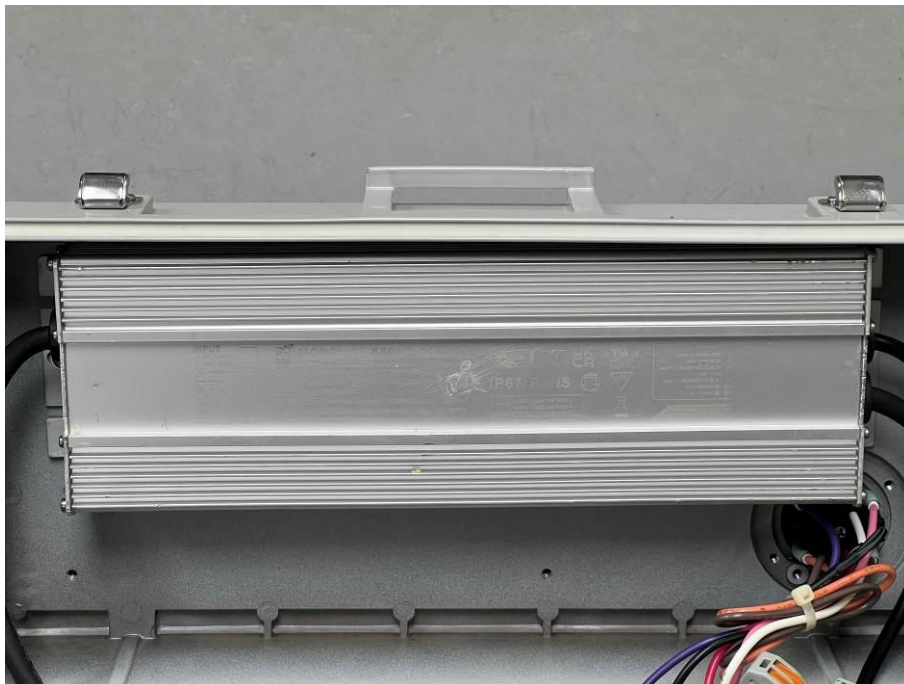
Note: Other constructions for AOK-600WHMA-NV-A5-00-6570-T2-B are same as AOK-600WHMA-NV-A5-PH-6570-T2-B.

Attachment 5: Product Photos

Alternative LED driver (SS-680NP-360BH) construction used for AOK-600WHMA-NV-A5-DD-XXYY-BN-B



Detailed view of earthing connection (star washer is used) used for alternative LED driver (SS-680NP-360BH) construction used for AOK-600WHMA-NV-A5-DD-XXYY-BN-B

Attachment 5: Product Photos

Detailed view of alternative LED driver (SS-680NP-360BH) used for AOK-600WHMA-NV-A5-DD-XXYY-BN-B



Front panel view of 600W models with P=B

Attachment 5: Product Photos



Internal view of 600W models with P=B



Internal view of 600W models with P=B

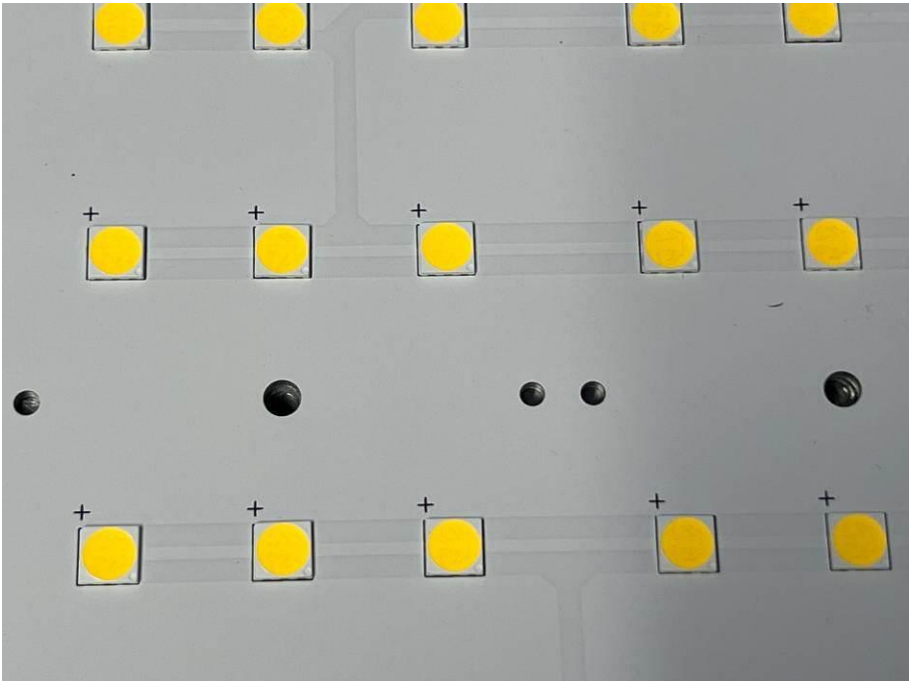
Attachment 5: Product Photos

Internal view of 600W models with P=B

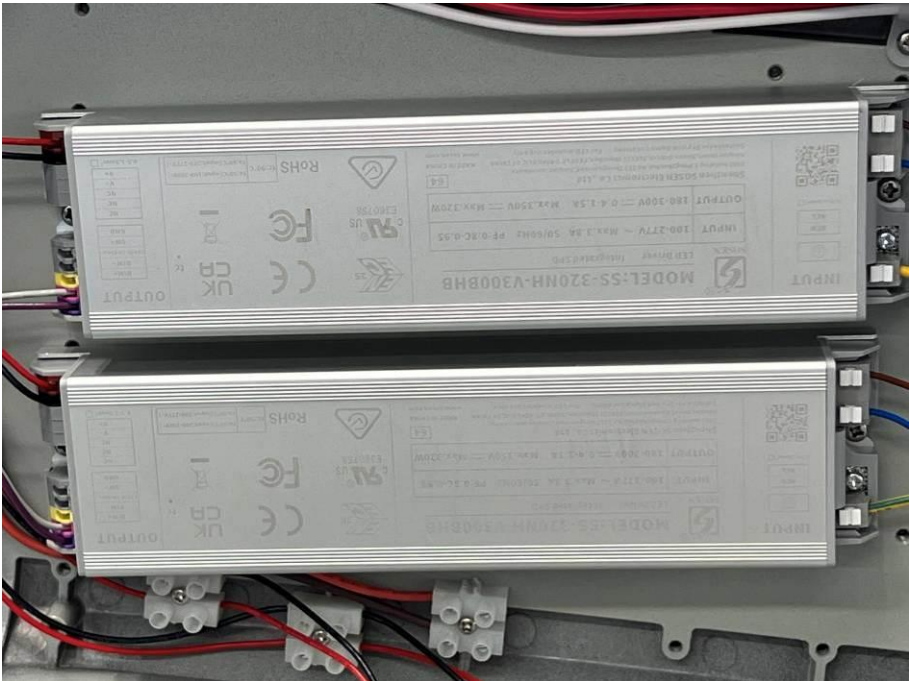


Internal view of 600W models with P=B

Attachment 5: Product Photos



Detailed view of LEDs used for all models



Detailed view of LED driver SS-320NH-V300BHB

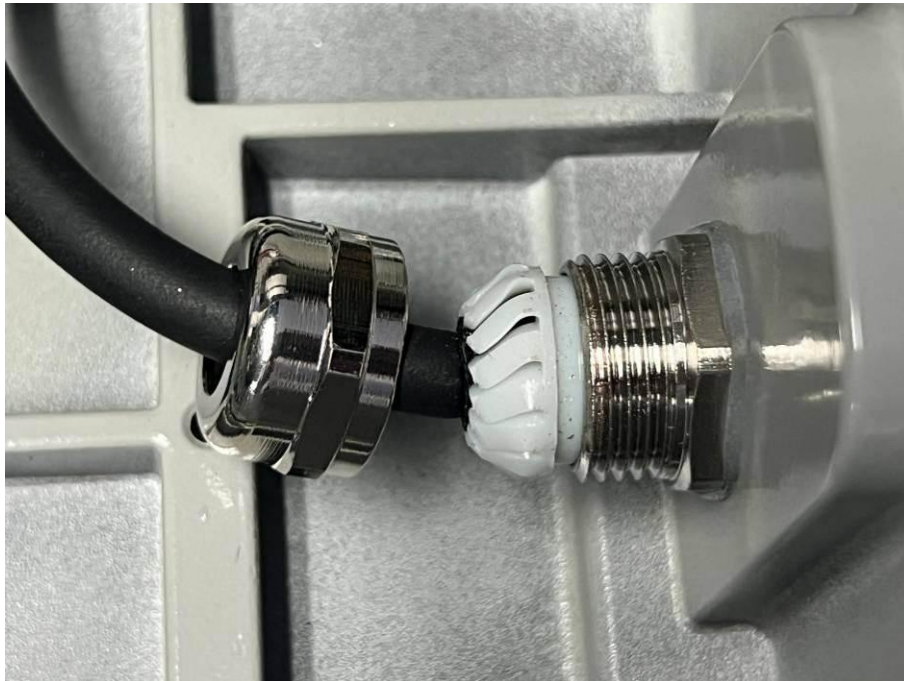
Attachment 5: Product Photos



Detailed view of LED driver SS-240NH-V300BHB



Detailed view of LED driver SS-200NH-V300BHB

Attachment 5: Product Photos

Detailed view of metal screw gland used for all models



Detailed view of SPD (ZYS-S10WLED) used for all models

Attachment 5: Product Photos



Detailed view of safety rope used for all models

---End---