



TEST REPORT IEC 60598-2-1 Luminaires Part 2: Particular requirements Section 1: Fixed general purpose luminaires	
Report Number.:	372182
Date of issue	2019-07-03
Total number of pages	95
Name of Testing Laboratory preparing the Report.....:	Nemko GmbH & Co. KG, Reetzstr. 58, 76327 Pfinztal, Germany
Applicant's name.....:	
Address	
Test specification:	
Standard	IEC 60598-2-1:1979, AMD1:1987 used in conjunction with IEC 60598-1:2014, AMD1:2017
Test procedure	Conformity testing
Non-standard test method	N/A
Test Report Form No.....:	IEC60598_2_1F
Test Report Form(s) Originator:	Intertek Semko AB
Master TRF	Dated 2017-10
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Test item description :	Fixed general purpose luminaire (pendant) for use with incandescent lamps, energy saving self-ballasted lamps (SBL) or LED lamps	
Trade Mark :	TAROGO®	
Manufacturer		
Model/Type reference	M.xxx series (see General product information for detailed information and variants)	
Ratings	1x60W (energy saving self-ballasted lamp 1x15W) Alt. 3x60W (energy saving self-ballasted lamp 3x15W) Alt. 6x60W (energy saving self-ballasted lamp 6x15W) Alt. 1x40W (energy saving self-ballasted lamp 1x11W) Alt. 3x40W (energy saving self-ballasted lamp 3x11W) Alt. 6x40W (energy saving self-ballasted lamp 6x11W) Alt. 9x40W (energy saving self-ballasted lamp 9x11W) 220-240V~, 50/60Hz, Cl. II, IP20, E27 alt. E14	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☐	Testing Laboratory:	Nemko GmbH & Co. KG
Testing location/ address :		Retzstr. 58, 76327 Pfinztal, Germany
Tested by (name, function, signature) :		Alexander Neumaier Test engineer 
Approved by (name, function, signature) :		Jahn Stephansen Verifier 

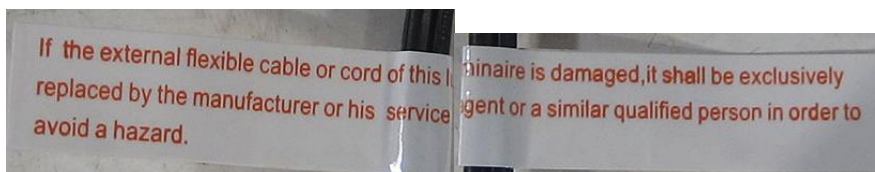
List of Attachments (including a total number of pages in each attachment): Attachment 1: European group differences and national differences (2 pages) Attachment 2: Model list (2 pages) Attachment 3: Pictures (18 pages) Attachment 4: Examples of assembly instructions (2 pages) Attachment 5: Pictures from manufacturers catalogue (26 pages)	
Summary of testing:	
Tests performed (name of test and test clause): - Clause 1.3 Common requirements (refer part 1: Luminaire design in dependence of light source standard) - Clause 1.4 Classification of Luminaires - Clause 1.5 Marking - Clause 1.6 Construction - Clause 1.7 Creepage and clearance distances - Clause 1.9 Terminals - Clause 1.10 External and internal wiring - Clause 1.11 Protection against electric shock - Clause 1.12 Endurance and thermal test - Clause 1.13 Resistance to dust and moisture - Clause 1.14 Insulation resistance and electric strength - Clause 1.15 Resistance to heat, fire and tracking	Testing location: Nemko GmbH & Co. KG Reetzstrasse 58, 76327 Pfinztal Germany
Summary of compliance with National Differences: List of countries addressed: CENELEC members ☒ The tested product fulfils the requirements of EN 60598-2-1:1989 used in conjunction with EN 60598-1:2015+A1:2018	

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.



Label at cord anchorage:



Warnung:

Zur Vermeidung von Gefährdungen darf eine beschädigte äußere flexible Leitung dieser Leuchte ausschließlich vom Hersteller, seinem Servicevertreter oder einer vergleichbaren Fachkraft ausgetauscht werden.

Test item particulars:	Ceiling or wall installed luminaires
Classification of installation and use:	Class, fixed luminaires, normal use
Supply Connection	Certified terminal block, alternative connection by fixed flexible cord with main plug
.....:	
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: 2019-03-21	
Date (s) of performance of tests: 2019-04-26 to 2019-06-27	
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)	

General product information:

The luminaires covered by current testing are models for ceiling or wall mounting. They all are equipped with separately approved components regarding mains plug, connection box, terminals, supply cord, cord switch and lampholder.

The luminaires are grouped into series expressed by 5 alphanumerical characters. The leading character is any number or letter between 1 and 10 or A and Z respectively. The second character is a dot.

The third to fifth character can be any combination of alphanumerical characters between 1 to 999 and/or A to Z respectively.

Each combination identifies a unique design.

For model list see Attachment 2, for design references see Attachment 5.

Variants:

Variant 1	Model name:	1.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27
Variant 2	Model name:	2.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27
Variant 3	Model name:	C.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27
Variant 4	Model name:	E.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27
Variant 5	Model name:	F.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27
Variant 6	Model name:	G.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W) Alt. 1x25W (energy saving self-ballasted lamp 1x5W) Alt. 1x40W (energy saving self-ballasted lamp 1x11W) Alt. 3x60W (energy saving self-ballasted lamp 3x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27 alt. E14

Variants:		
Variant 7	Model name:	H.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27
Variant 8	Model name:	J.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27
Variant 9	Model name:	K.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W) 1x40W (energy saving self-ballasted lamp 1x11W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27 alt. E14
Variant 10	Model name:	R.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W) Alt. 1x40W (energy saving self-ballasted lamp 1x11W) Alt. 3x60W (energy saving self-ballasted lamp 3x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27 alt. E14
Variant 11	Model name:	V.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27
Variant 12	Model name:	W.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W) Alt. 3x60W (energy saving self-ballasted lamp 3x15W) Alt. 5x60W (energy saving self-ballasted lamp 5x15W) Alt. 6x60W (energy saving self-ballasted lamp 6x15W) Alt. 7x60W (energy saving self-ballasted lamp 7x15W) Alt. 3x40W (energy saving self-ballasted lamp 3x11W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27 alt. E14
Variant 13	Model name:	X.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27
Variant 14	Model name:	Y.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27
Variant 15	Model name:	Z.xxx
	Trade Mark:	TAROGO
	Technical data:	1x60W (energy saving self-ballasted lamp 1x15W)
	Other specifications:	220-240V~, 50/60Hz, Cl. II, IP20, E27

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.2 (0)	GENERAL TEST REQUIREMENTS		P
1.2 (0.3)	More sections applicable..... :	Yes ☐ No ☒ Section/s:	—
1.2 (0.5)	Components	See Annex 1	—
1.2 (0.7)	Information for luminaire design in light sources standards		—
1.2 (0.7.2)	Light source safety standard	IEC 60968, IEC 60432-1	—
	Luminaire design in the light source safety standard	IEC 60968 Annex B IEC 60432-1 Annex K	P

1.4 (2)	CLASSIFICATION OF LUMINAIRES		P
1.4 (2.2)	Type of protection	Class II	P
1.4 (2.3)	Degree of protection..... :	IP20	—
1.4 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces	Yes ☒ No ☐	—
1.4 (2.5)	Luminaire for normal use	Yes ☒ No ☐	—
	Luminaire for rough service	Yes ☐ No ☒	—

1.5 (3)	MARKING		P
1.5 (3.2)	Mandatory markings		P
	Position of the marking		P
	Format of symbols/text		P
1.5 (3.3)	Additional information	Instructions	P
	Language of instructions	English and German checked	P
1.5 (3.3.1)	Combination luminaires		N/A
1.5 (3.3.2)	Nominal frequency in Hz		P
1.5 (3.3.3)	Operating temperature		N/A
1.5 (3.3.5)	Wiring diagram		N/A
1.5 (3.3.6)	Special conditions		N/A
1.5 (3.3.7)	Metal halide lamp luminaire – warning		N/A
1.5 (3.3.8)	Limitation for semi-luminaires		N/A
1.5 (3.3.9)	Power factor and supply current		N/A
1.5 (3.3.10)	Suitability for use indoors		N/A
1.5 (3.3.11)	Luminaires with remote control		N/A

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.5 (3.3.12)	Clip-mounted luminaire – warning		N/A
1.5 (3.3.13)	Specifications of protective shields		N/A
1.5 (3.3.14)	Symbol for nature of supply		P
1.5 (3.3.15)	Rated current of socket outlet		N/A
1.5 (3.3.16)	Rough service luminaire		N/A
1.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	Type Y	P
1.5 (3.3.18)	Non-ordinary luminaires with PVC cable		P
1.5 (3.3.19)	Protective conductor current in instruction if applicable		N/A
1.5 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
1.5 (3.3.21)	Non replaceable and non-user replaceable light sources information provided		N/A
1.5 (3.3.22)	Controllable luminaires, classification of insulation provided		N/A
1.5 (3.3.23)	Luminaire without controlgear provided with necessary information for selection of appropriate component		N/A
1.5 (3.3.24)	If not supplied with terminal block, information on the packaging		N/A
1.5 (3.4)	Test with water		P
	Test with hexane		P
	Legible after test		P
	Label attached		P

1.6 (4)	CONSTRUCTION		P
1.6 (4.2)	Components replaceable without difficulty	No replaceable components other than bulbs	N/A
1.6 (4.3)	Wireways smooth and free from sharp edges		P
1.6 (4.4)	Lampholders		P
1.6 (4.4.1)	Integral lampholder		N/A
1.6 (4.4.2)	Wiring connection		N/A
1.6 (4.4.3)	Lampholder for end-to-end mounting		N/A
1.6 (4.4.4)	Positioning		P

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- 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)	E14: 1.2 Nm E27: 2.0 Nm	—
	After test the lampholder have not moved from its position and show no permanent deformation		P
1.6 (4.4.5)	Peak pulse voltage		N/A
1.6 (4.4.6)	Centre contact		N/A
1.6 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
1.6 (4.4.8)	Lamp connectors		N/A
1.6 (4.4.9)	Caps and bases correctly used	Socket certified for mains connection	N/A
1.6 (4.4.10)	Light source for lampholder or connection according IEC 60061 not connected another way		N/A
1.6 (4.5)	Starter holders		N/A
	Starter holder in luminaires other than class II		N/A
	Starter holder class II construction		N/A
1.6 (4.6)	Terminal blocks		N/A
	Tails		N/A
	Unsecured blocks		N/A
1.6 (4.7)	Terminals and supply connections		
1.6 (4.7.1)	Contact to metal parts	Fixed luminaires, not for frequent adjustment	N/A
1.6 (4.7.2)	Test 8 mm live conductor		P
	Test 8 mm earth conductor	Class II	N/A
1.6 (4.7.3)	Terminals for supply conductors	Screw type terminals for connection to fixed wiring. Screwless type terminals for non-rewireable connections that are prepared by the manufacturer.	P
1.6 (4.7.3.1)	Welded method and material		N/A

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
	- 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
1.6 (4.7.4)	Terminals other than supply connection	Terminals at switches and lampholders are part of the approved component and are not used for multiple connection.	N/A
1.6 (4.7.5)	Heat-resistant wiring/sleeves	Heat shrinkable tubing with adequate thermal rating used for lampholder connection.	P
1.6 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A
1.6 (4.8)	Switches		P
	- adequate rating	Cord switch rating complies with the marking plate information	P
	- adequate fixing	Cord is not damaged by clamping; anchorage function is satisfactorily.	P
	- polarized supply		N/A
	- compliance with IEC 61058-1 for electronic switches		N/A
1.6 (4.9)	Insulating lining and sleeves		P
1.6 (4.9.1)	Retainment		P
	Method of fixing	By shrinking (shrinkable tubing) or by pressing into threaded entry (mushroom shaped lining)	P
1.6 (4.9.2)	Insulated linings and sleeves:		P
	Resistant to a temperature > 20 °C to the wire temperature or	Tubing is UL rated for 125 °C. The measured maximum temperature the tubing is exposed to is 89 °C.	P
	a) & c) Insulation resistance and electric strength		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b) Ageing test. Temperature (°C)..... :		N/A
1.6 (4.10)	Double or reinforced insulation		P
1.6 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		P
	Safe installation fixed luminaires	The connection compartment provides a tubing to protect the metal enclosure from contact with basic insulated wiring.	N/A
	Capacitors and switches		N/A
	Interference suppression capacitors according to IEC 60384-14		N/A
1.6 (4.10.2)	Assembly gaps:		P
	- not coincidental		P
	- no straight access with test probe		P
1.6 (4.10.3)	Retention of insulation:		P
	- fixed		P
	- unable to be replaced; luminaire inoperative		N/A
	- sleeves retained in position	By mechanical clamping, by length or by use of heat shrinkable tubing.	P
	- lining in lampholder	Insulation layer in mushroom shape is fixed by length and shape.	P
1.6 (4.10.4)	Protective impedance device		N/A
	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor		N/A
	Y1 or Y2 capacitors comply with IEC 60384-14		N/A
	Resistors comply with test (a) in 14.1 of IEC 60065		N/A
1.6 (4.11)	Electrical connections and current-carrying parts		P
1.6 (4.11.1)	Contact pressure		P
1.6 (4.11.2)	Screws:		N/A
	- self-tapping screws	Not used	N/A
	- thread-cutting screws	Not used	N/A
1.6 (4.11.3)	Screw locking:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- spring washer	Not used for electrical connection	N/A
	- rivets	Not used for electrical connection	N/A
1.6 (4.11.4)	Material of current-carrying parts		P
1.6 (4.11.5)	No contact to wood or mounting surface	Live parts are double insulated	P
1.6 (4.11.6)	Electro-mechanical contact systems		N/A
1.6 (4.12)	Screws and connections (mechanical) and glands		P
1.6 (4.12.1)	Screws not made of soft metal		P
	Screws of insulating material	For cord anchorage function only	P
	Torque test: torque (Nm); part..... :	0.4; terminal screw 2.4 mm	P
	Torque test: torque (Nm); part..... :	1.2; canopy fixing screw 3.7 mm	P
	Torque test: torque (Nm); part..... :		N/A
1.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal	Terminal screw 2.4 mm	P
1.6 (4.12.4)	Locked connections:		P
	- fixed arms; torque (Nm) :	For Cord anchorage fixing 9.8 mm; 2.5 Nm For several models with a fixed arms with a diameter below 10.0 mm: 2.5 Nm Fixed arm of model K.524 12.5 mm; 5 Nm	P
	- lampholder; torque (Nm) :	E14; 1,2 Nm / E27; 2.0 Nm	P
	- push-button switches; torque 0,8 Nm :		N/A
1.6 (4.12.5)	Screwed glands; force (Nm)..... :		N/A
1.6 (4.13)	Mechanical strength		P
1.6 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm) :		N/A
	- other parts; energy (Nm)..... :	0.35 Nm	P
	1) live parts		P
	2) linings	Inside lampholder	P
	3) protection		P
	4) covers	Covers can be removed and fixed without difficulties	P

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Clause	Requirement + Test	Result - Remark	Verdict
1.6 (4.13.2)	Metal parts have adequate mechanical strength	Metal parts are separated from live parts by double or reinforced insulation.	N/A
1.6 (4.13.3)	Straight test finger		P
1.6 (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
1.6 (4.13.6)	Tumbling barrel		N/A
1.6 (4.14)	Suspensions, fixings and means of adjusting		P
1.6 (4.14.1)	Mechanical load:		P
	A) four times the weight	M.CPX 3.7 kg, loaded with 14.8 kg	P
	B) torque 2,5 Nm		N/A
	C) bracket arm; bending moment (Nm)..... :	M.M21 b) 10	P
	D) load track-mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)		N/A
	Metal rod. diameter (mm)		N/A
	Fixed luminaire or independent control gear without fixing devices		N/A
1.6 (4.14.2)	Load to flexible cables		P
	Mass (kg)	MCF8 1.5 kg	—
	Stress in conductors (N/mm ²)	9.8 at 2 x 0.75 mm ² conductor	P
	Mass (kg) of semi-luminaire		N/A
	Bending moment (Nm) of semi-luminaire		N/A
1.6 (4.14.3)	Adjusting devices:		P
	- flexing test; number of cycles..... :	150	P
	- strands broken	None	P
	- electric strength test afterwards		P
1.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.6 (4.14.5)	Guide pulleys		N/A
1.6 (4.14.6)	Strain on socket-outlets		N/A
1.6 (4.15)	Flammable materials		N/A
	- glow-wire test 650°C	See Test Table 1.15 (13.3.2)	N/A
	- spacing ≥ 30 mm		N/A
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		N/A
	- thermal protection		N/A
	- electronic circuits exempted		N/A
1.6 (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
1.6 (4.16)	Luminaires for mounting on normally flammable surfaces		P
	No lamp control gear	(compliance with Section 12)	P
	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces		N/A
1.6 (4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
1.6 (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
1.6 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	N/A
1.6 (4.17)	Drain holes		N/A
	Clearance at least 5 mm		N/A
1.6 (4.18)	Resistance to corrosion		N/A
1.6 (4.18.1)	- rust-resistance		N/A
1.6 (4.18.2)	- season cracking in copper		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.6 (4.18.3)	- corrosion of aluminium		N/A
1.6 (4.19)	Ignitors compatible with ballast		N/A
1.6 (4.20)	Rough service vibration		N/A
1.6 (4.21)	Protective shield		N/A
1.6 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps		N/A
	Shield of glass if tungsten halogen lamps		N/A
1.6 (4.21.2)	Particles from a shattering lamp not impair safety		N/A
1.6 (4.21.3)	No direct path		N/A
1.6 (4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment..... :	See Test Table 1.15 (13.3.2)	N/A
1.6 (4.22)	Attachments to lamps not cause overheating or damage		N/A
1.6 (4.23)	Semi-luminaires comply Class II		N/A
1.6 (4.24)	Photobiological hazards		N/A
1.6 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)	Protection relies on the used lamp. No lamps provided together with luminaire.	N/A
1.6 (4.24.2)	Retinal blue light hazard		N/A
	Class of risk group assessed according to IEC/TR 62778	Protection relies on the used lamp. No lamps provided together with luminaire.	—
	Luminaires with E_{thr} :		N/A
	a) Fixed luminaires		N/A
	- distance x m, borderline between RG1 and RG2 .. :		N/A
	- marking and instruction according 3.2.23		N/A
	b) Portable and handheld luminaires		N/A
	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778		N/A
	Portable luminaires for children IEC 60598-2-10 and Mains socket outlet nightlights IEC 60598-2-12 not exceed RG1 at 200 mm according to IEC/62778		N/A
1.6 (4.25)	Mechanical hazard		P
	No sharp point or edges		P
1.6 (4.26)	Short-circuit protection		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.6 (4.26.1)	Adequate means of uninsulated accessible SELV parts		N/A
1.6 (4.26.2)	Short-circuit test with test chain according 4.26.3		N/A
	Test chain not melt through		N/A
	Test sample not exceed values of Table 12.1 and 12.2		N/A
1.6 (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
1.6 (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
1.6 (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
1.6 (4.30)	Luminaires with non-user replaceable light source		N/A
	If protective cover provide protection against electric shock and marked with “caution, electric shock risk” symbol:		N/A
	Minimum two fixing means		N/A
1.6 (4.31)	Insulation between circuits		N/A
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Controllable luminaires requiring same level of insulation for all components, the insulation between control terminals and LV supply fulfil requirements according 4.31.1 – 4.31.3		N/A
1.6 (4.31.1)	SELV circuits		N/A
	Used SELV source		N/A
	Voltage $\leq$ ELV		N/A
	Insulating of SELV circuits from LV supply		N/A
	Insulating of SELV circuits from other non SELV circuits		N/A
	Insulating of SELV circuits from FELV		N/A
	Insulating of SELV circuits from other SELV circuits		N/A
	SELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to enter 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
1.6 (4.31.2)	FELV circuits		N/A
	Used FELV source		N/A
	Voltage $\leq$ ELV		N/A
	Insulating of FELV circuits from LV supply		N/A
	FELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to enter socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Socket-outlets does not have protective conductor contact		N/A
1.6 (4.31.3)	Other circuits		N/A
	Other circuits insulated from accessible parts according Table X.1		N/A
	Class II construction with equipotential bonding for protection against indirect contacts with live parts:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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
1.6 (4.32)	Overvoltage protective devices		N/A
	Comply with IEC 61643-11		N/A
	External to controlgear and connected to earth:		N/A
	- only in fixed luminaires		N/A
	- only connected to protective earth		N/A

1.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		P
1.7 (11.2.1)	Impulse withstand category (Normal category II)	Category II ☒ Category III ☐	—
	Category III according Annex U		N/A
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		N/A
1.7 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 1.7 (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 1.7 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 1.7 (11.2) II	N/A
1.7 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 1.7 (11.2) I	P
	Clearances distances for frequency over 30 kHz:		N/A
	- Controlgear marked with U_P	See Test Table 1.7 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 1.7 (11.2) II	N/A

1.8 (7)	PROVISION FOR EARTHING		N/A
1.8 (7.2.1 + 7.2.3)	Accessible metal parts		N/A
	Metal parts in contact with supporting surface		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Resistance < 0,5 Ω :		N/A
	Self-tapping screws used		N/A
	Thread-forming screws		N/A
	Thread-forming screw used in a groove		N/A
	Earth makes contact first		N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
	Protective earthing of the luminaire not via built-in control gear		N/A
1.8 (7.2.2 + 7.2.3)	Earth continuity in joints, etc.		N/A
1.8 (7.2.4)	Locking of clamping means		N/A
	Compliance with 4.7.3		N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
1.8 (7.2.5)	Earth terminal integral part of connector socket		N/A
1.8 (7.2.6)	Earth terminal adjacent to mains terminals		N/A
1.8 (7.2.7)	Electrolytic corrosion of the earth terminal		N/A
1.8 (7.2.8)	Material of earth terminal		N/A
	Contact surface bare metal		N/A
1.8 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
1.8 (7.2.11)	Earthing core coloured green-yellow		N/A
	Length of earth conductor		N/A

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

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

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Clause	Requirement + Test	Result - Remark	Verdict
1.10 (5)	EXTERNAL AND INTERNAL WIRING		P
1.10 (5.2)	Supply connection and external wiring		P
1.10 (5.2.1)	Means of connection	For models with removeable canopy: Terminal block All other models: Fixed flexible cord with mains plug	P
	Outdoor luminaire has not PVC insulated external wiring if not class III or SELV ≤ 25 V a.c./60 V d.c. or protected from outdoor environment		N/A
1.10 (5.2.2)	Type of cable	H03VVH2-F	P
	Nominal cross-sectional area (mm ²)	2 x 0.75 mm ²	P
	Cables equal to IEC 60227 or IEC 60245		P
1.10 (5.2.3)	Type of attachment, X, Y or Z	Type Y	P
1.10 (5.2.5)	Type Z not connected to screws		N/A
1.10 (5.2.6)	Cable entries:		P
	- suitable for introduction		P
	- adequate degree of protection		P
1.10 (5.2.7)	Cable entries through rigid material have rounded edges		P
1.10 (5.2.8)	Insulating bushings:		P
	- suitably fixed		P
	- material in bushings	Made of PVC	P
	- material not likely to deteriorate		P
	- tubes or guards made of insulating material	No such components used	N/A
1.10 (5.2.9)	Locking of screwed bushings	No screwed bushing used	N/A
1.10 (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
1.10 (5.2.10.1)	Cord anchorage for type X attachment:		N/A
	a) at least one part fixed		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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
1.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment		P
1.10 (5.2.10.3)	Tests:		P
	- impossible to push cable; unsafe		P
	- pull test: 25 times; pull (N) : 60 N		P
	- torque test: torque (Nm) : 0.15 Nm		P
	- displacement ≤ 2 mm		P
	- no movement of conductors		P
	- no damage of cable or cord		P
	- function independent of electrical connection		P
1.10 (5.2.11)	External wiring passing into luminaire		P
1.10 (5.2.12)	Looping-in terminals		N/A
1.10 (5.2.13)	Wire ends not tinned	Conductor sleeve used	P
	Wire ends tinned: no cold flow		N/A
1.10 (5.2.14)	Mains plug same protection	IP20	P
	Class III luminaire plug		N/A
	No unsafe compatibility		N/A
1.10 (5.2.16)	Appliance inlets (IEC 60320)		N/A
	Installation couplers (IEC 61535)		N/A
	Other appliance inlet or connector according relevant IEC standard		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
1.10 (5.2.17)	No standardized interconnecting cables properly assembled		N/A
1.10 (5.2.18)	Used plug in accordance with		P
	- IEC 60083	Complies with harmonized standard EN 50075	P
	- other standard		N/A
1.10 (5.3)	Internal wiring		P
1.10 (5.3.1)	Internal wiring of suitable size and type		P
	Through wiring		N/A
	- 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 earth only		N/A
1.10 (5.3.1.1)	Internal wiring connected directly to fixed wiring		P
	Cross-sectional area (mm ²).....	2 x 0.75 mm ²	P
	Insulation thickness (mm)		P
	Extra insulation added where necessary		N/A
1.10 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		N/A
	Cross-sectional area (mm ²).....		N/A
1.10 (5.3.1.3)	Double or reinforced insulation for class II		P
1.10 (5.3.1.4)	Conductors without insulation		N/A
1.10 (5.3.1.5)	SELV current-carrying parts		N/A
1.10 (5.3.1.6)	Insulation thickness other than PVC or rubber	No insulation other than PVC used	N/A
1.10 (5.3.2)	Sharp edges etc.		P
	No moving parts of switches etc.		P
	Joints, raising/lowering devices		P
	Telescopic tubes etc.		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	No twisting over 360°		P
1.10 (5.3.3)	Insulating bushings:		P
	- suitable fixed		P
	- material in bushings		P
	- material not likely to deteriorate		P
	- cables with protective sheath		P
1.10 (5.3.4)	Joints and junctions effectively insulated		P
1.10 (5.3.5)	Strain on internal wiring		P
1.10 (5.3.6)	Wire carriers		N/A
1.10 (5.3.7)	Wire ends not tinned	Conductor sleeve used	P
	Wire ends tinned: no cold flow		N/A
1.10 (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

1.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		P
1.11 (8.2.1)	Live parts not accessible		P
	Basic insulated parts not used on the outer surface without appropriate protection	Under conditions for normal operation: All accessible parts are double or reinforced insulated against live parts	N/A
	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires	Under conditions for normal operation	P
	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires	Under conditions for normal operation	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		P
	Protection in any position		P
	Double-ended tungsten filament lamp		N/A
	Insulation lacquer not reliable		

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Clause	Requirement + Test	Result - Remark	Verdict
	Double-ended high-pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
1.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position		N/A
1.11 (8.2.3.a)	Class II luminaire:		P
	- basic insulated metal parts not accessible during starter or lamp replacement		P
	- basic insulation not accessible other than during starter or lamp replacement		P
	- glass protective shields not used as supplementary insulation		N/A
1.11 (8.2.3.b)	BC lampholder of metal in class I luminaires shall be earthed		N/A
1.11 (8.2.3.c)	SELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- voltage under load (V)		N/A
	- no-load 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
	- nominal 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
1.11 (8.2.4)	Portable luminaire has protection independent of supporting surface		N/A
1.11 (8.2.5)	Compliance with the standard test finger or relevant probe		P
1.11 (8.2.6)	Covers reliably secured		P
1.11 (8.2.7)	Luminaire other than below with capacitor > 0,5 μ F not exceed 50 V 1 min after disconnection		N/A
	Portable luminaire with capacitor > 0,1 μ F (0.25) not exceed 34 V 1 s after disconnection		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	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
1.12 (12)	ENDURANCE TEST AND THERMAL TEST		P
1.12 (-)	If IP > IP 20 relevant test of (12.4), (12.5) and (12.6) after (9.2) before (9.3) specified in 1.13		—
1.12 (12.2)	Selection of lamps and ballasts		—
	Lamp used according Annex B	(Lamp used see Annex 2)	—
	Controlgear if separate and not supplied	(Controlgear used see Annex 2)	—
1.12 (12.3)	Endurance test		P
	a) mounting-position	Installed according instructions	—
	b) test temperature (°C)	35	—
	c) total duration (h)	240	—
	d) supply voltage (V)	230 V: 1.05; 241.5 V	—
	d) if not equipped with controlgear, constant voltage/current (V) or (A)	Incandescent lamp 60 W	—
	e) luminaire ceases to operate	Luminaire operates continuously	—
1.12 (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
1.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	P
1.12 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	N/A
1.12 (12.6)	Thermal test (failed lamp control gear condition):		N/A
1.12 (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
1.12 (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
1.12 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):		N/A
1.12 (12.7.1)	Luminaire without temperature sensing control		N/A
1.12 (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 Test Table 1.15 (13.2.1)	N/A
1.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA		N/A
	- case of abnormal conditions		—

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Clause	Requirement + Test	Result - Remark	Verdict
	- 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 Test Table 1.15 (13.2.1)	N/A
1.12 (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
1.12 (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 Test Table 1.15 (13.2.1)	N/A

1.13 (9)	RESISTANCE TO DUST AND MOISTURE		P
1.13 (-)	If IP > IP 20 the order of tests as specified in clause 1.12		P
1.13 (9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP	IP20	—
	- mounting position during test	Mounted	—
	- fixing screws tightened; torque (Nm)	Installed according instructions	—
	- tests according to clauses	3.8 mm; 2/3 of 1.2 Nm = 0.8 Nm	—
	- electric strength test afterwards		P
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire		N/A
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	c.1) For luminaires without drain holes – no water entry		N/A
	c.2) For luminaires with drain holes – no hazardous water entry		N/A
	d) no water in watertight or pressure watertight luminaire		N/A
	e) no contact with live parts (IP 2X)		P
	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		N/A
1.13 (9.3)	Humidity test 48 h		P

1.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
1.14 (10.2.1)	Insulation resistance test		P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø	Metal foil used	—
	Insulation resistance (MΩ)	See values below	—
	SELV		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		P
	- between live parts of different polarity	> 10 MΩ	P
	- between live parts and mounting surface	> 10 MΩ	P
	- between live parts and metal parts	> 10 MΩ	P

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Clause	Requirement + Test	Result - Remark	Verdict
	- between live parts of different polarity through action of a switch..... :	> 10 MΩ	P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :	> 10 MΩ	P
	- Insulation bushings as described in Section 5 :	> 10 MΩ	P
1.14 (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) :	No control gear used	N/A
	SELV		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		P
	- between live parts of different polarity :	1480 V	P
	- between live parts and mounting surface :	2960 V	P
	- between live parts and metal parts..... :	2960 V	P
	- between live parts of different polarity through action of a switch..... :	1480 V	P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :	2960 V	P
	- Insulation bushings as described in Section 5 :	2960 V	P
1.14 (10.3)	Touch current or protective conductor current (mA):.	> 0.1 mA	P

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Clause	Requirement + Test	Result - Remark	Verdict
1.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		P
1.15 (13.2.1)	Ball-pressure test	Component being relevant for ball pressure test are separately approved and do comply with the requirements for resistance to heat.	N/A
1.15 (13.3.1)	Needle-flame test (10 s)	Component being relevant for ball pressure test are separately approved and do comply with flammability requirements.	N/A
1.15 (13.3.2)	Glow-wire test (650°C)	Component being relevant for ball pressure test are separately approved and do comply with flammability requirements.	N/A
1.15 (13.4)	Proof tracking test (IEC 60112)	Ordinary luminaires only	N/A

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Clause	Requirement + Test	Result - Remark	Verdict

1.7 (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:	R	4.8	3.0	11.1	> 9	5.0	11.1	
Working voltage (V)					250		—	
PTI					< 600 ☒ ≥ 600 ☐		—	
Pulse voltage if applicable (kV)					---		—	
Supplementary information: Between lamp cap and accessible parts of lampholder								
Distance 2:	R	4.9	3	11.1	7.1	5	11.1	
Working voltage (V)					250		—	
PTI					< 600 ☒ ≥ 600 ☐		—	
Pulse voltage if applicable (kV)					---		—	
Supplementary information: Between live wire inside terminal and accessible metal parts								
Distance 3:	B	4.0	1.5	11.1	4.0	2.5	11.1	
Working voltage (V)					250		—	
PTI					< 600 ☒ ≥ 600 ☐		—	
Pulse voltage if applicable (kV)					---		—	
Supplementary information: Between wiring of different polarity across terminal block								
Distance 4:	R	< 4	3	11.1	> 8	5	11.1	
Working voltage (V)					250		—	
PTI					< 600 ☒ ≥ 600 ☐		—	
Pulse voltage if applicable (kV)					---		—	
Supplementary information: Between live wire at lampholder terminal and metal parts in contact to accessible metal parts.								

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

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.7 (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:							

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

1.15 (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:					

1.15 (13.3.1)	TABLE: Needle-flame test (IEC 60695-11-5)				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:					

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.15 (13.3.2)	TABLE: Glow-wire test (IEC 60695-2-11)			N/A
Glow wire temperature		650°C		—
Object/ Part No./ Material	Manufacturer/ trademark	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
—	—	—	—	—
Supplementary information:				

1.15 (13.4)	TABLE: Proof tracking test (IEC 60112)			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 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1		TABLE: Critical components information					
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Lampholder E14	D	ARDITI	500 CI	2A, 250V, T190	IEC 60 238	ENEC 03	
Lampholder E14	D	ARDITI	600 CI	2A, 250V, T190	IEC 60 238	ENEC 03	
Lampholder E14	D	ARDITI	602 CI	2A, 250V, T190	IEC 60 238	ENEC 03	
Lampholder E14	D	ARDITI	500 TP	2A, 250V, T190	IEC 60 238	ENEC 03	
Lampholder E14	D	ARDITI	600 TP	2A, 250V, T190	IEC 60 238	ENEC 03	
Lampholder E14	D	ARDITI	602 TP	2A, 250V, T190	IEC 60 238	ENEC 03	
Lampholder E14	D	ARDITI	170	2A, 250V	IEC 60 238	ENEC 03	
Lampholder E14	D	ARDITI	50S, 60S, 63A, 65, 65F, 62S, 64, 64SP, 65S, 50A, 60A, 62A, 63, 60AP, 65K	2A, 250V T210 max.	IEC 60 238	ENEC 03	
Lampholder E27	D	ARDITI	A800/C	4A, 250V, T190	IEC 60 238	ENEC 03	
Lampholder E27	D	ARDITI	A801/CI	4A, 250V, T190	IEC 60 238	ENEC 03	
Lampholder E27	D	ARDITI	A802/CI	4A, 250V, T190	IEC 60 238	ENEC 03	
Lampholder E27	D	ARDITI	A800 TP	4A, 250V, T190	IEC 60 238	ENEC 03	
Lampholder E27	D	ARDITI	A801 TP	4A, 250V, T190	IEC 60 238	ENEC 03	
Lampholder E27	D	ARDITI	A802 TP	4A, 250V, T190	IEC 60 238	ENEC 03	
Lampholder E27	D	ARDITI	SERIE 8 models 80S and 82S	4A, 250V, T210	IEC 60 238	ENEC 03	
Screw terminal for models with plastic ceiling canopy	B	Heavy Power	PA10	400V, 2.5 mm²	EN 60998-2-1	VDE 40019247	
Screw terminal for models with plastic ceiling canopy	D	Heavy Power	PA9F	24A, 450V, 2.5 mm²,	EN 60998-2-1	VDE 40016425	
Screw terminal for models with metal ceiling canopy	D	MPM	BMA 2215	10A, 250V, 0.75-1.5mm², T100°C	IEC 60598-1	VDE 40035410	

IEC 60598-2-1						
Clause	Requirement + Test			Result - Remark		Verdict
Screw terminal for models with metal ceiling canopy	D	Shenzhen Greenway Electronic	MK254	0.75 mm ² , 250V, 10A T100°C	EN 60998-2-2 EN 60998-1	TÜV SÜD U6 14 12 90250 005
Screwless terminal	D	Heavy Power	PC 252, PC 253, PC 254, PC 255	1-2.5 mm ² , 450V, 24A T110°C	EN 60998-2-2 EN 60998-1	VDE 40020034
Connection block/box	B	HELAG	HE254	250V 10A, 1,5mm ²	IEC 60998-1	Nemko P09210880
Heat shrinkable tubes	B	Shenzhen Woer Heat Shrinkable Material Co. Ltd.	RSFR-H	600V, 125°C, VW-1, Polyolefin	UL 224	UL (E203950) and tested in EUT
Heat shrinkable sleeves	A	Dong Guan Huang Feng Insulation Ltd.	HFT-2	600V, 125°C, VW-1, Polyolefin	UL 224	UL (E236485) and tested in EUT
Wiring (internal and/or external)	B	Sinofair	H03VVH2-F	2x0.75mm ²	EN 50525-2-11	VDE 125483 40030589
Wiring (internal and/or external)	D	Toong Yean Plastic	H03VV-F	2x0.75mm ²	EN 50525-2-11	VDE 40024356
Wiring (internal and/or external)	D	Toong Yean Plastic	H05VV-F	2x0.75-1.5mm ²	EN 50525-2-11	VDE 40024356
Wiring (internal and/or external)	D	Toong Yean Plastic	H03VVH2-F	2x0.75mm ²	EN 50525-2-11	VDE 40024356
Wiring (internal and/or external)	D	Toong Yean Plastic	H05VVH2-F	2x0.75-1.0mm ²	EN 50525-2-11	VDE 40024356
Wiring (internal and/or external)	D	ARDITI	03VVH2-F	2x0.75mm ²	EN 50525-2-11	VDE 40031644
Wiring (internal and/or external)	D	ARDITI	03VVH2-F	2x0.75mm ²	HD 21.5	VDE 40031644
Wiring (internal and/or external)	D	I-Sheng	H03VVH2-F	2x0.75mm ²	EN 50525-2-11	VDE 40015762
Wiring (internal and/or external)	D	ARDITI	H05VVH2-F	2x0.75mm ²	EN 50525-2-11	VDE 40032075
Wiring (internal and/or external)	D	Shanghai Sumin	H03VVH2-F	2x0.75mm ²	EN 50525-2-11	VDE 40032197
Wiring (internal and/or external)	D	Shanghai Sumin	H05VVH2-F	2x0.75mm ²	EN 50525-2-11	VDE 40028367

IEC 60598-2-1						
Clause	Requirement + Test			Result - Remark		Verdict
Wiring (internal only)	B	Shanghai Sumin	03VVH2-F	2x0.75mm ²	HD 21.5	VDE Reg.- Nr. 8499
Wiring (internal only)	B	DongGuan R&G Electric	H03VV-F H05VV-F H03VVH2-F H05VVH2-F	2x0.75mm ²	DIN EN 50525-2-11	VDE 40030323
Cord switch	B	OPENWISE	303	2A, 250V	IEC 61058-2-1	VDE 106396
Cord switch	D	OPENWISE	304	2A, 250V	IEC 61058-2-1	ENEC 14 9927-33
Cord switch	D	OPENWISE	317	2A, 250V	IEC 61058-2-1	ENEC 14 9927-31
Cord switch	D	ARDITI	301	2A, 250V	IEC 61058-2-1	ENEC 03
Cord switch	D	ARDITI	304	1A, 250V	IEC 61058-2-1	ENEC 03
Cord switch	D	ARDITI	305	2A, 250V	IEC 61058-2-1	ENEC 03
Cord switch	D	ARDITI	350V	2A, 250V	IEC 61058-2-1	ENEC 03
Plug with wiring	B	ARDITI	2130	2,5A 250V 2x0,75mm ²	EN 50075	ENEC 03
Plug with wiring	D	Shee Line	SL-5	2,5A 250V 2x0,75mm ²	EN 50075	Nemko P18223021
Plug	D	Toong Yean	TY-011	2,5A, 250V	EN 50075	VDE 40002154
Plug	D	Changzhou Hong Chang Electronics	DTIII-2P-03	2,5A, 250V	EN 50075	VDE 40015278
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 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2	TABLE: Thermal tests of Section 12		P				
	Type reference :	M.HL7	—				
	Lamp used..... :	Philips incandescent 60 W E27	—				
	Lamp control gear used..... :	N/A	—				
	Mounting position of luminaire :	Ceiling mounted inside drought-proof chamber	—				
	Supply wattage (W)..... :	69.65	—				
	Supply current (A) :	0.281	—				
	Temperatures in test 1 - 4 below are corrected for ta (°C) :	25	—				
	- abnormal operating mode :	N/A	—				
1.12 (12.4)	- test 1: rated voltage :	N/A	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current :	247.7	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage :	N/A	—				
	Through wiring or looping-in wiring loaded by a current of A during the test :	N/A	—				
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current :	N/A	—				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Bifurcation of wire	25	—	87	—	110*	—	—
Lampholder material	25	—	135	—	190	—	—
Wire at cord anchorage	25	—	57	—	75**	—	—
Terminal block	25	—	28	—	100	—	—
Test piece	25	—	28	—	90	—	—
Mounting surface	25	—	26	—	90	—	—
Supplementary information: *Internal wiring enclosed by 125° C rated heat shrinkable tubing. **Reduced by 15° C due to mechanical clamping of cord anchorage.							

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2	TABLE: Thermal tests of Section 12		P				
	Type reference :	M.CPB	—				
	Lamp used..... :	Philips incandescent 40 W E27	—				
	Lamp control gear used..... :	N/A	—				
	Mounting position of luminaire :	Wall mounted in test corner inside drought-proof chamber	—				
	Supply wattage (W) :	44.60	—				
	Supply current (A) :	0.180	—				
	Temperatures in test 1 - 4 below are corrected for ta (°C) :	25	—				
	- abnormal operating mode :	N/A	—				
1.12 (12.4)	- test 1: rated voltage :	N/A	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current :	248.0	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage :	N/A	—				
	Through wiring or looping-in wiring loaded by a current of A during the test :	N/A	—				
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current :	N/A	—				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Bifurcation of wire	25	—	85	—	110*	—	—
Lampholder material	25	—	115	—	190	—	—
Accessible metal frame	25	—	29	—	60**	—	—
Cord switch	25	—	27	—	55	—	—
Mounting surface	25	—	27	—	90	—	—
Supplementary information: *Internal wiring enclosed by 125° C rated heat shrinkable tubing. Reduced by 15° C due to mechanical clamping of cord anchorage.							
** Requirement by EK1 AG2 rev. 10							

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2	TABLE: Thermal tests of Section 12		P				
	Type reference	K.254	—				
	Lamp used.....	Philips incandescent 40 W E14	—				
	Lamp control gear used.....	N/A	—				
	Mounting position of luminaire	Wall mounted in test corner inside drought-proof chamber	—				
	Supply wattage (W)	44.10	—				
	Supply current (A)	0.177	—				
	Temperatures in test 1 - 4 below are corrected for t_a (°C)	25	—				
	- abnormal operating mode	N/A	—				
1.12 (12.4)	- test 1: rated voltage	N/A	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	248.0	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	N/A	—				
	Through wiring or looping-in wiring loaded by a current of A during the test	N/A	—				
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	N/A	—				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
bifurcation of wire	25	—	89	—	110*	—	—
lampholder material	25	—	166	—	190	—	—
wire cord anchorage	25	—	66	—	75**	—	—
accessible metal surface	25	—	51	—	60***	—	—
terminal block	25	—	27	—	100	—	—
test piece	25	—	26	—	90	—	—
Supplementary information: *Internal wiring enclosed by 125° C rated heat shrinkable tubing. **Reduced by 15° C due to mechanical clamping of cord anchorage.							
*** Requirement by EK1 AG2 rev. 10							

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2	TABLE: Thermal tests of Section 12		P				
	Type reference :	M.CPX	—				
	Lamp used..... :	Philips incandescent 40 W E14	—				
	Lamp control gear used..... :	N/A	—				
	Mounting position of luminaire :	Ceiling mounted inside drought-proof chamber	—				
	Supply wattage (W)..... :	400.0	—				
	Supply current (A) :	1.628	—				
	Temperatures in test 1 - 4 below are corrected for ta (°C) :	25	—				
	- abnormal operating mode :	N/A	—				
1.12 (12.4)	- test 1: rated voltage :	N/A	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current :	246.4	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage :	N/A	—				
	Through wiring or looping-in wiring loaded by a current of A during the test :	N/A	—				
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current :	N/A	—				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Bifurcation of wire	25	—	66	—	110*	—	—
Lampholder material	25	—	107	—	190	—	—
Close-end connector	25	—	39	—	110	—	—
Wire in cord anchorage	25	—	28	—	75**	—	—
Terminal block	25	—	29	—	100	—	—
Mounting surface	25	—	28	—	90	—	—
Supplementary information: *Internal wiring enclosed by 125° C rated heat shrinkable tubing. **Reduced by 15° C due to mechanical clamping of cord anchorage.							

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

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 4	Screwless terminals (part of the luminaire)		N/A
(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

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
(15.6)	Terminals and connections for external wiring		N/A
(15.6.1)	Conductors		N/A
	Terminal size and rating		N/A
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

IEC 60598-2-1										
Clause	Requirement + Test					Result - Remark				Verdict
(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)										N/A
	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)										N/A
	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)										N/A
	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)										N/A
	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)										N/A
										N/A
Supplementary information:										

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

IEC60598_2_1F ATTACHMENT			
ATTACHMENT TO TEST REPORT IEC 60598-2-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Luminaires Part 2: Particular requirements Section 1: Fixed general purpose luminaires			
Differences according to EN 60598-2-1:1989 used in conjunction with EN 60598-1:2015 + A1:2018			
Annex Form No EU_GD_IEC60598_2_1F Annex Form Originator IMQ S.p.A. Master Annex Form 2018-08-28			
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	CENELEC COMMON MODIFICATIONS (EN)	P
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1.5 (3)	MARKING	N/A
1.5 (3.3.101)	For luminaires not supplied with terminal block: Adequate warning on the package	N/A

1.6 (4)	CONSTRUCTION	N/A
1.6 (4.11.6)	Electro-mechanical contact systems	N/A

1.10 (5)	EXTERNAL AND INTERNAL WIRING	P
1.10 (5.2.1)	Connecting leads	N/A
	- without a means for connection to the supply	N/A
	- terminal block specified	N/A
	- relevant information provided	N/A
	- compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1	N/A
1.10 (5.2.2)	Cables equal to EN 50525	P
	Replace table 5.1 – Supply cord	P

IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.12 (12)	ENDURANCE TESTS AND THERMAL TESTS		P
1.12 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring		P

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		N/A
(3.3)	DK: power supply cords of class I luminaires with label		N/A
(4.5.1)	DK: socket-outlets		N/A
(5.2.1)	CY, DK, FI, GB: type of plug		N/A

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
(4 & 5)	FR: Shuttered socket-outlets 10/16A		N/A
	FR: Safety requirements for high buildings (Arrêté du 30 décembre 2011 portant règlement de sécurité pour la construction des immeubles de grande hauteur et leur protection contre les risques d'incendie et de panique; Section VIII; Article GH 48, Eclairage) 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
(13.3)	GB: Requirements according to United Kingdom Building Regulation		N/A

Attachment 2: Model list

1 x 40 W incandescent or 1 x 11 W CFL, E14								
G.xxx	G.KHM							
K.xxx	K.524							
M.xxx	M.M21							
R.xxx	R.1R5							
3 x 40 W incandescent or 3 x 11 W CFL, E14								
M.xxx	M.CQ9							
6 x 40 W incandescent or 6 x 11 W CFL, E14								
W.xxx	W.RAA							
9 x 40 W incandescent or 9 x 11 W CFL, E14								
M.xxx	M.CPX							
1 x 25 W incandescent or 1 x 5 W CFL, E27								
G.xxx	G.K7Q							
1 x 40 W incandescent or 1 x 11 W CFL, E27								
M.xxx	M.CPB							
1 x 60 W incandescent or 1 x 15 W CFL, E27								
1.xxx	1.007							
2.xxx	2.447							
C.xxx	C.B5G							
E.xxx	E.L83							
F.xxx	F.789							
G.xxx	G.MA1	G.CP2	G.52A	G.86P	G.87L	G.58B	G.483	G.481
	G.S2H	G.S76	G.K7Z	G.HCQ	G.KHN	G.XB7	G.CPM	G.PB5
	G.S75	G.913						
H.xxx	H.P82							
J.xxx	J.40Z	J.149	J.034	J.035	J.070			
K.xxx	K.MA2	K.278	K.254	K.CRX	K.281			
M.xxx	M.H30	M.93U	M.CF8	M.HL7	M.KR4	M.CR9	M.88L	
R.xxx	R.F19	R.R8X	R.T86	R.F8A	R.W14	R.AN5	R.B2B	R.129
	R.L02	R.X81	R.WX4	R.WX5	R.W8C	R.R7C	R.81G	R.D97
	R.X5F	R.CSR	R.B1D	R.PL1	R.CS3	R.CS4	R.CS6	R.CS8
	R.CS9	R.R80	R.32J	R.32K	R.Z81	R.AN1	R.AN2	R.AN7
	R.AN8	R.ANA	R.F09	R.F9P	R.W8C	R.R7B	R.T85	R.T87
	R.F8B	R.RM2	R.RX7	R.RX8	R.HL2	R.G8P	R.B3E	R.B3F
	R.W25	R.R8W	R.CRA	R.CRB	R.CRC	R.PBJ	R.R8T	R.R8U
	R.B3H	R.FSD	R.MD3	R.MP8	R.R8P	R.X9T	R.ANY	R.ANZ
	R.32F	R.ASA	R.ASB	R.RRA	R.RRB	R.RRC		
W.xxx	W.85B	W.RA1	W.Y23	W.S5B	W.Y35	W.G79	W.RA2	W.S57
	W.RA5							
X.xxx	X.51D	X.885	X.8R7					
Y.xxx	Y.W50	Y.56C	Y.WTP					
Z.xxx	Z.Q5A	Z.Y5B						

3 x 60 W incandescent or 3 x 15 W CFL, E27								
R.xxx	R.MA5	R.B17						
M.xxx	M.HL8	M.HL9	M.CPF					
G.xxx	G.X7Y	G.XB8						
V.xxx	V.55X							
W.xxx	W.8SK							
5 x 60 W incandescent or 5 x 15 W CFL, E27								
W.xxx	W.TX3							
6 x 60 W incandescent or 6 x 15 W CFL, E27								
W.xxx	W.8RL							
M.xxx	M.Z62	M.P62	M.PT4					
7 x 60 W incandescent or 7 x 15 W CFL, E27								
W.xxx	W.MA2	W.MA3						

Attachment 3: Pictures

M.HL7



M.CF8



R.W14



R.W14 Cord
anchorage at
lampholder



M.CPB	
	

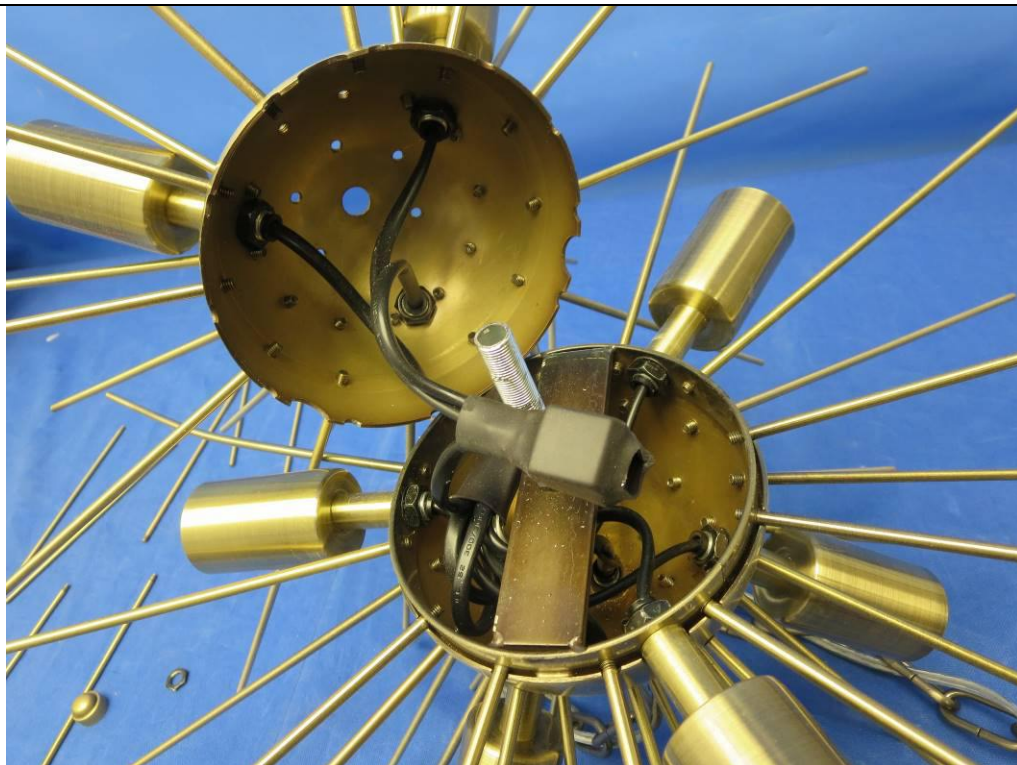
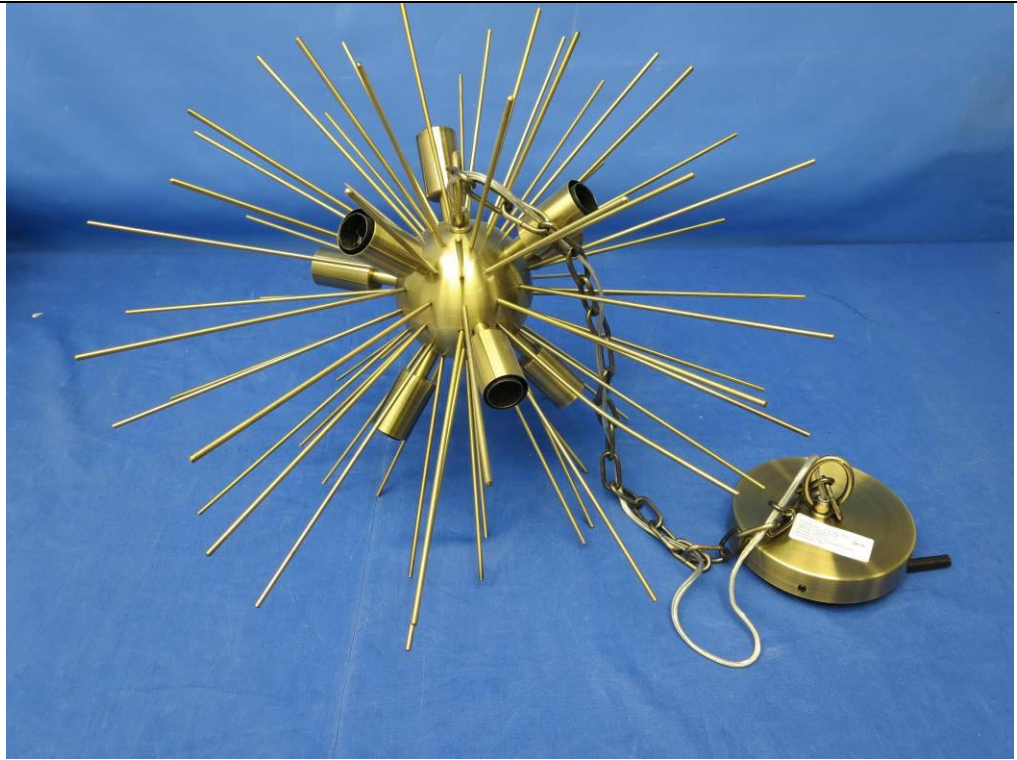
K.524



M.M21

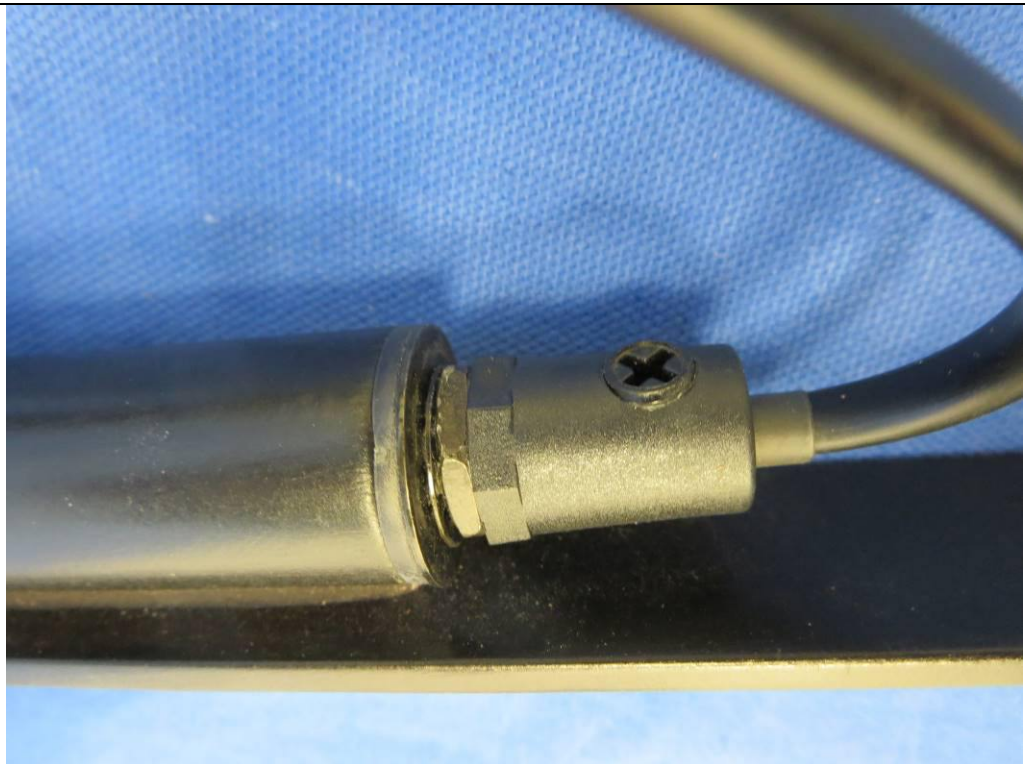


M.CPX

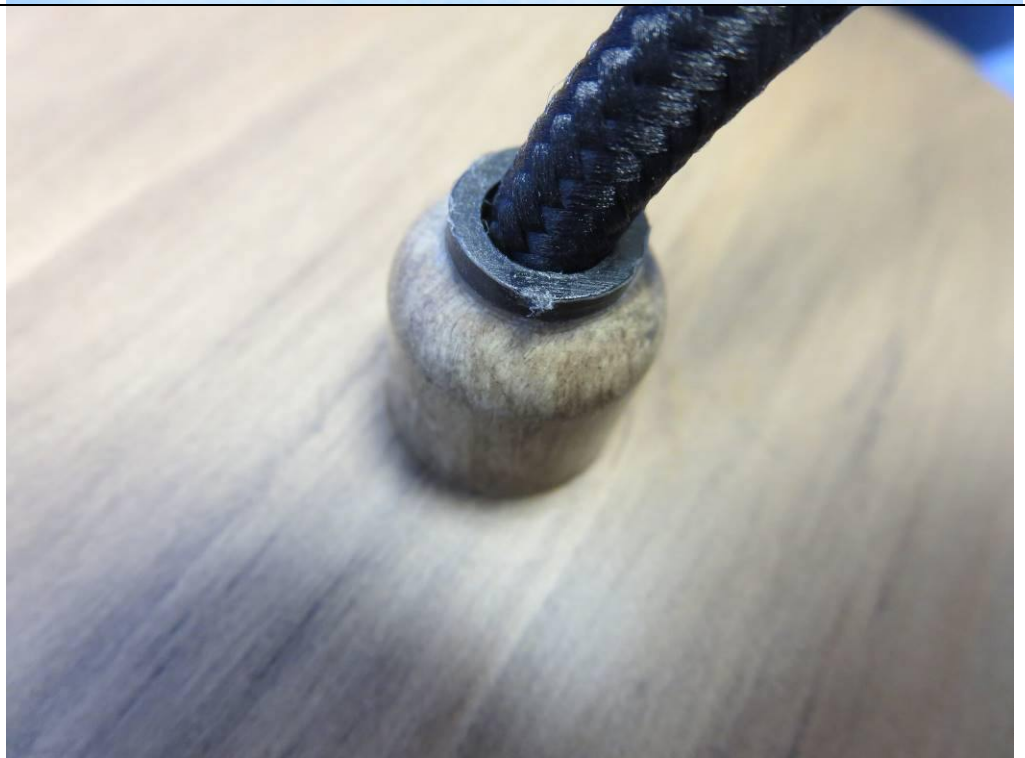


Typical construction details	
Cord anchorage at lamp shade top	
Cord anchorage at ceiling canopy	

Cord anchorage at adjustable joint at wall mounting bracket



Bushing at ceiling canopy



Bushing at
threaded entry



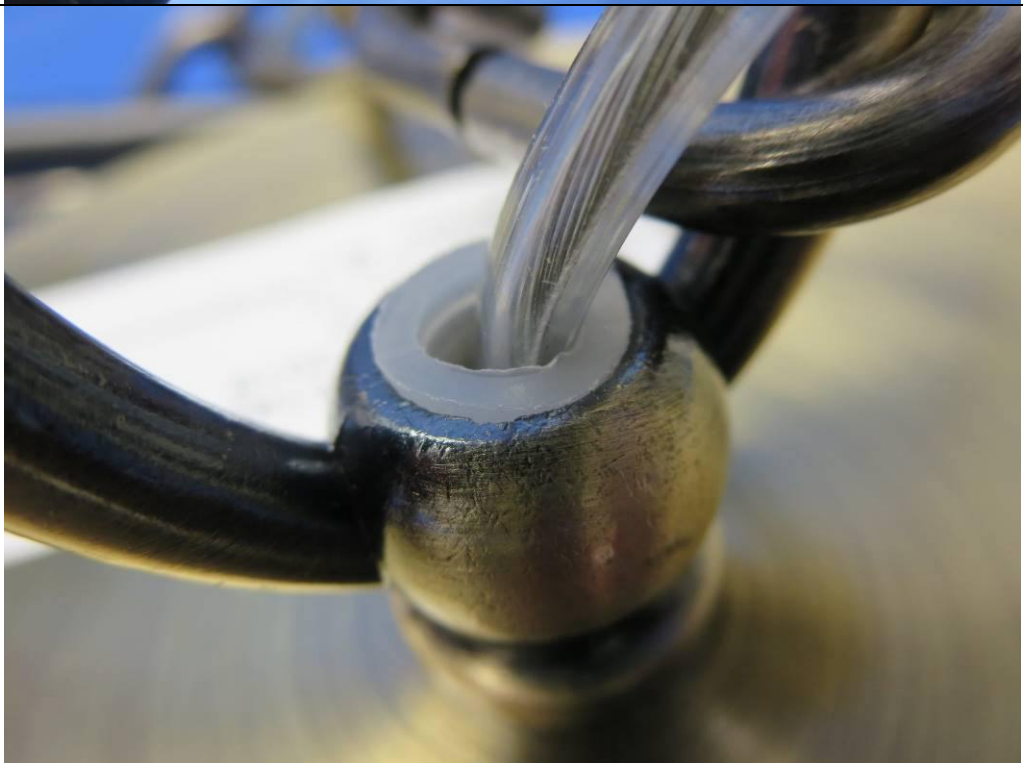
Bushing at
ceiling canopy



Bushing at
metal parts



Bushing at
metal parts



Bushing at
metal parts



Terminal block
for connection
to fixed wiring



Bifurcation of
wire inside
lampholder



Adjustable
joint for lamp
shade

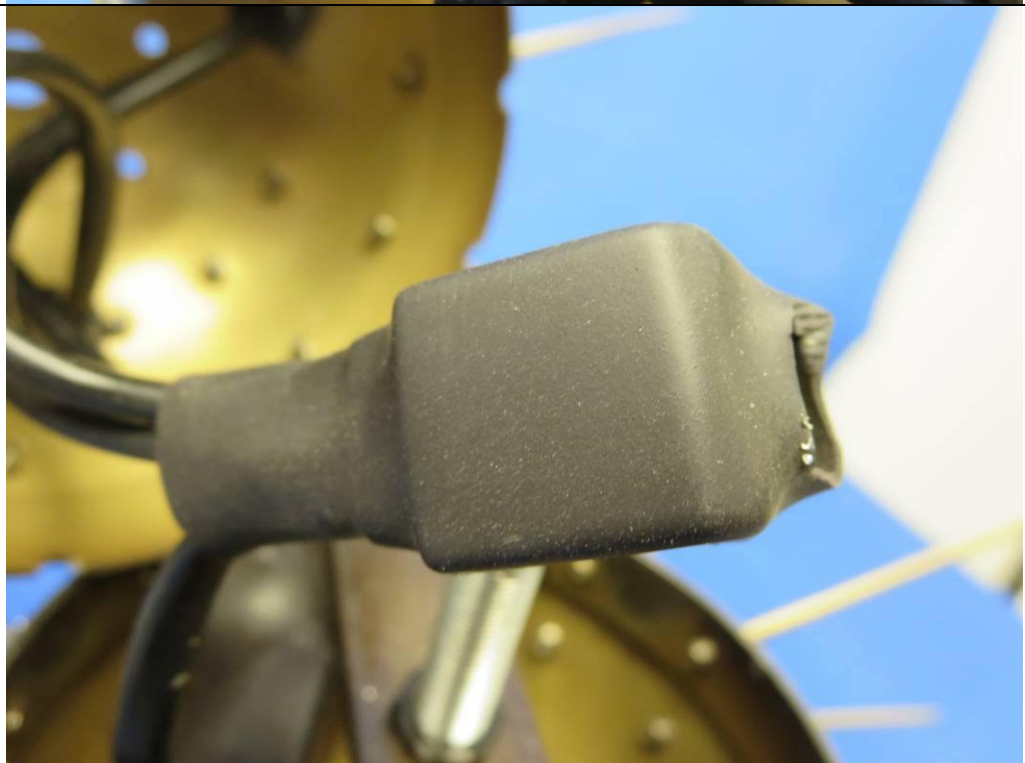


Adjustable joint for lamp shade		
Typical ceiling canopy		

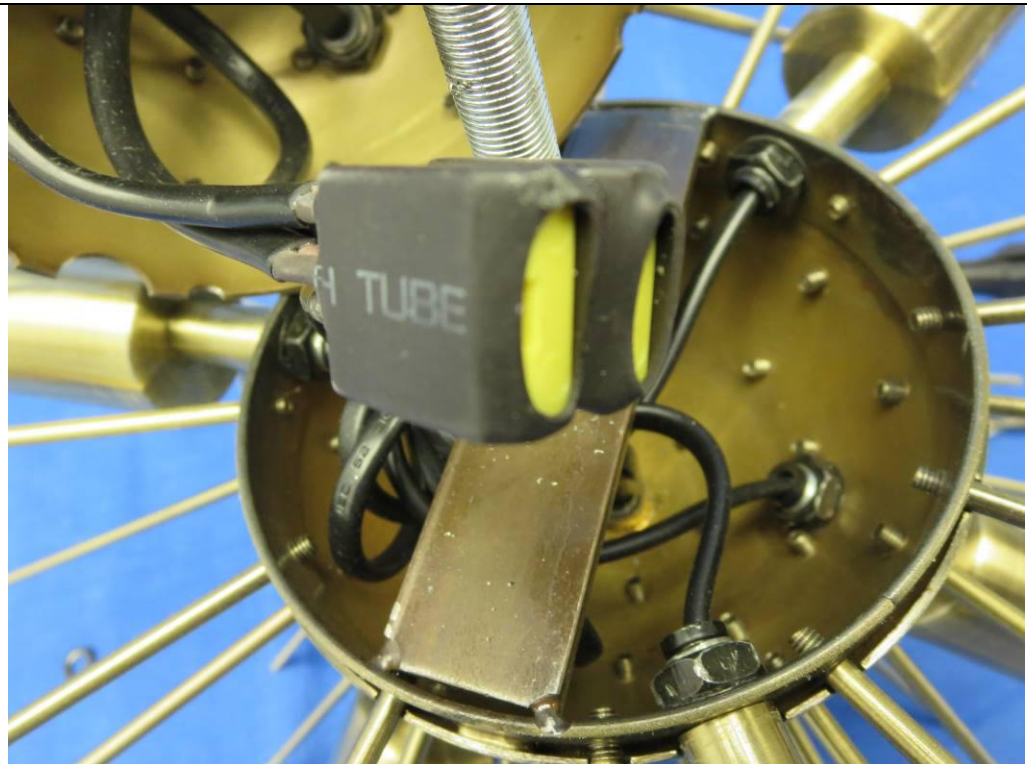
Internal wire joints with screwless terminals (original)



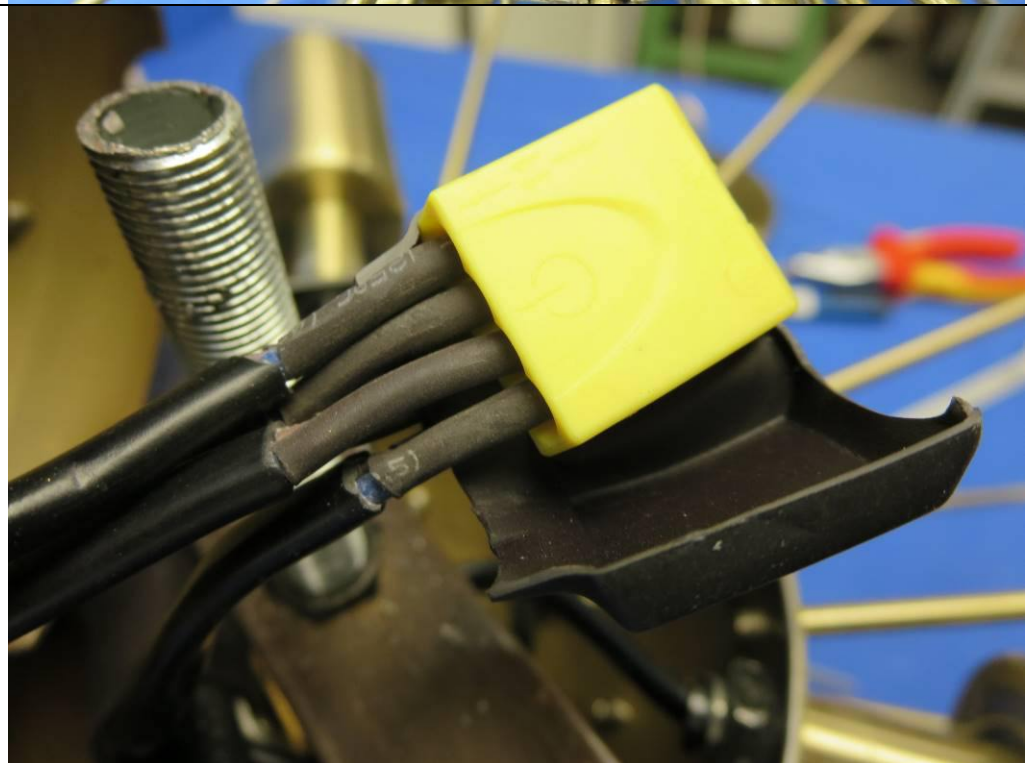
Internal wire joints with screwless terminals (original)

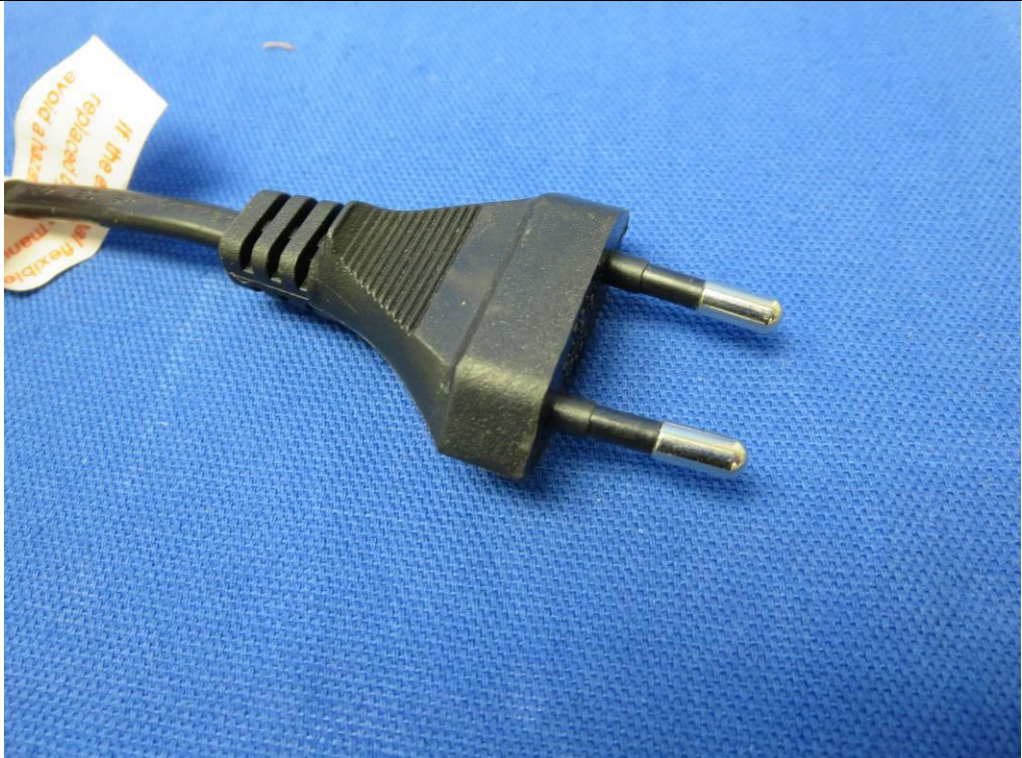


Internal wire joints with screwless terminals (outer tubing removed)

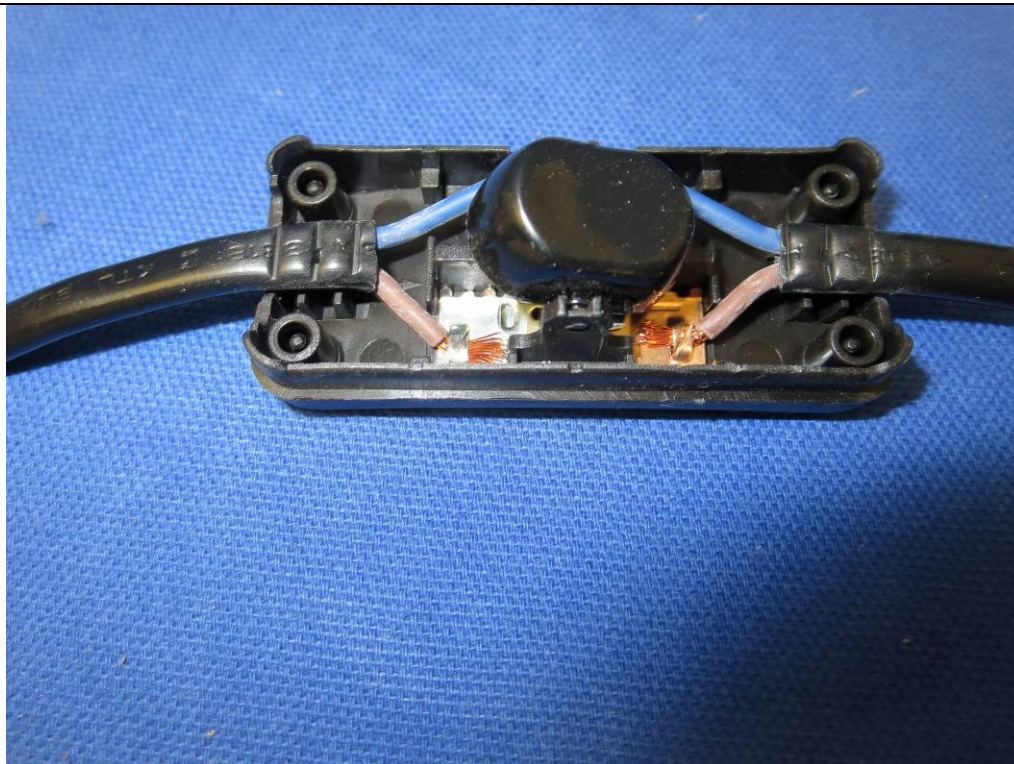


Internal wire joints with screwless terminals (inner tubing removed)



Main plug	
Cord switch wire entrance	

Cord switch
inside view



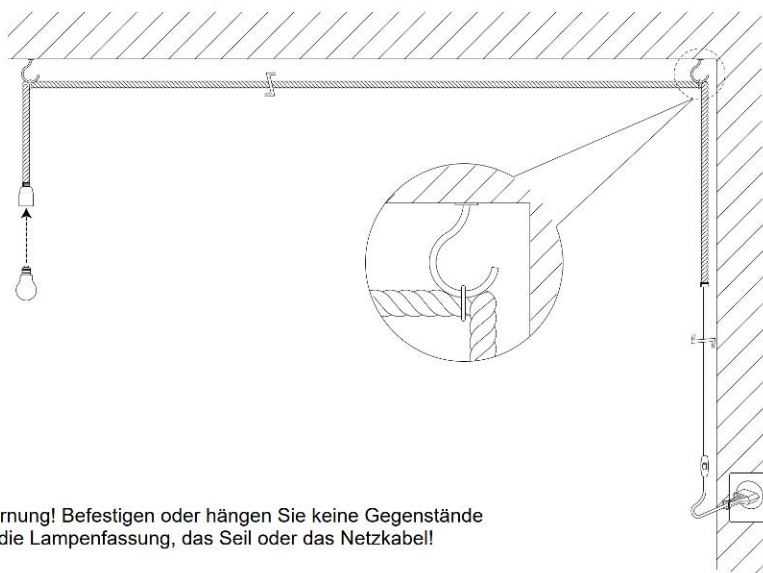
Mushroom
shaped cord
anchorage
inside
lampholder



Attachment 4: Instructions

ASSEMBLY INSTRUCTION

ROPE LAMP



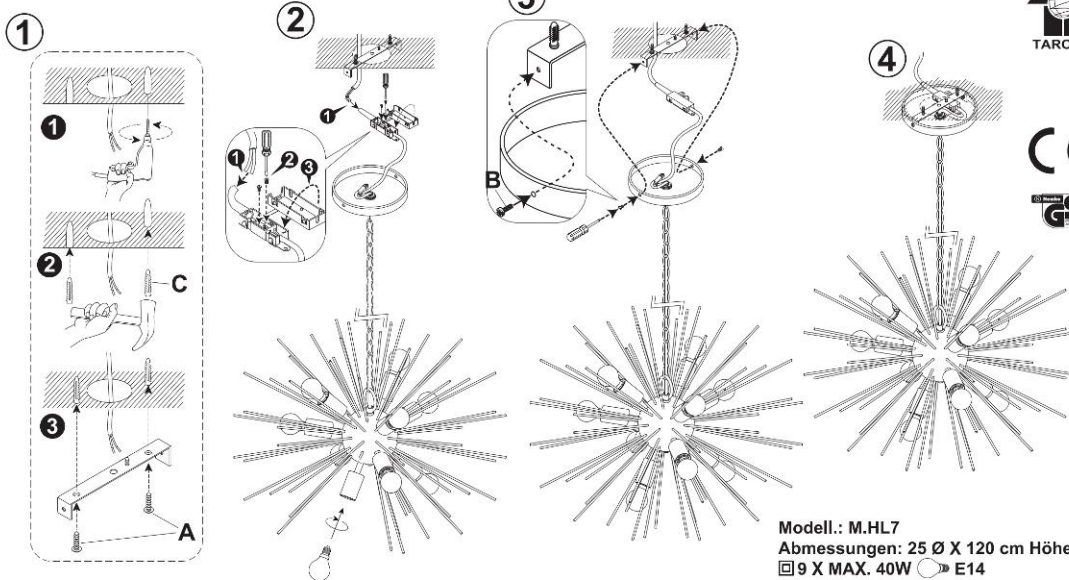
Warnung! Befestigen oder hängen Sie keine Gegenstände an die Lampenfassung, das Seil oder das Netzkabel!



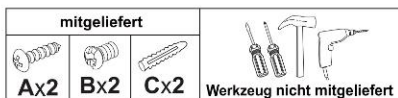
ITEM No.: R.W14
SIZE: 450 CM H.
□ MAX 60W, ○ E27
□ MAX 15W, ○ E27



AUFBAU ANLEITUNG

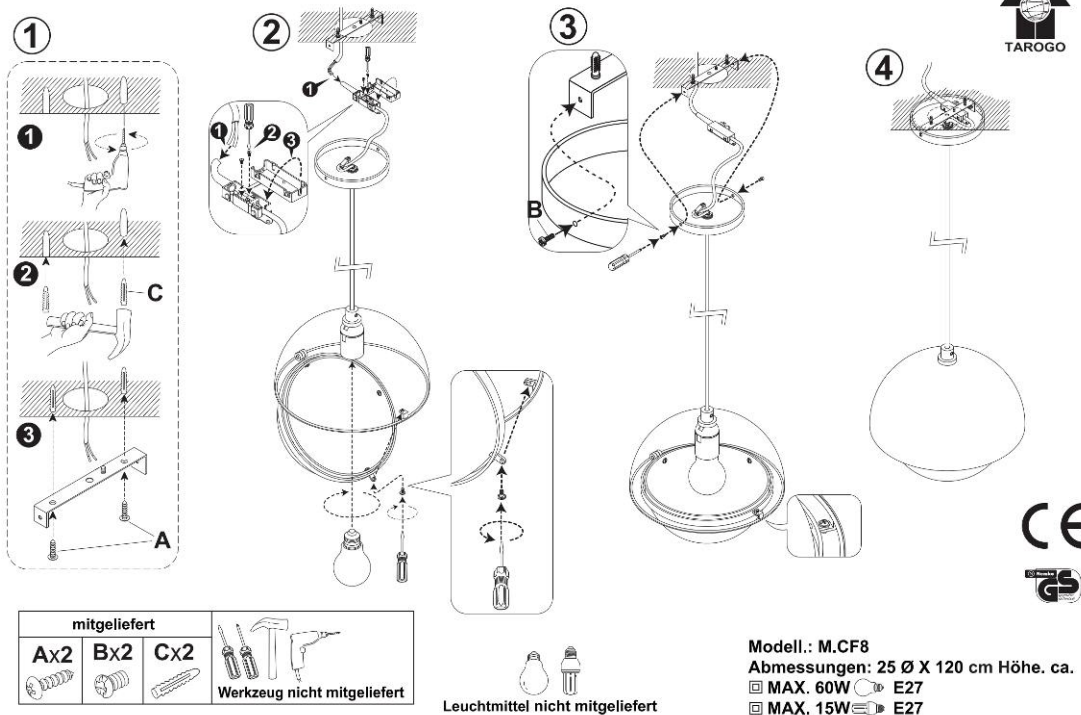


Modell.: M.HL7
Abmessungen: 25 Ø X 120 cm Höhe. ca.
□ 9 X MAX. 40W, ○ E14
□ 9 X MAX. 11W, ○ E14

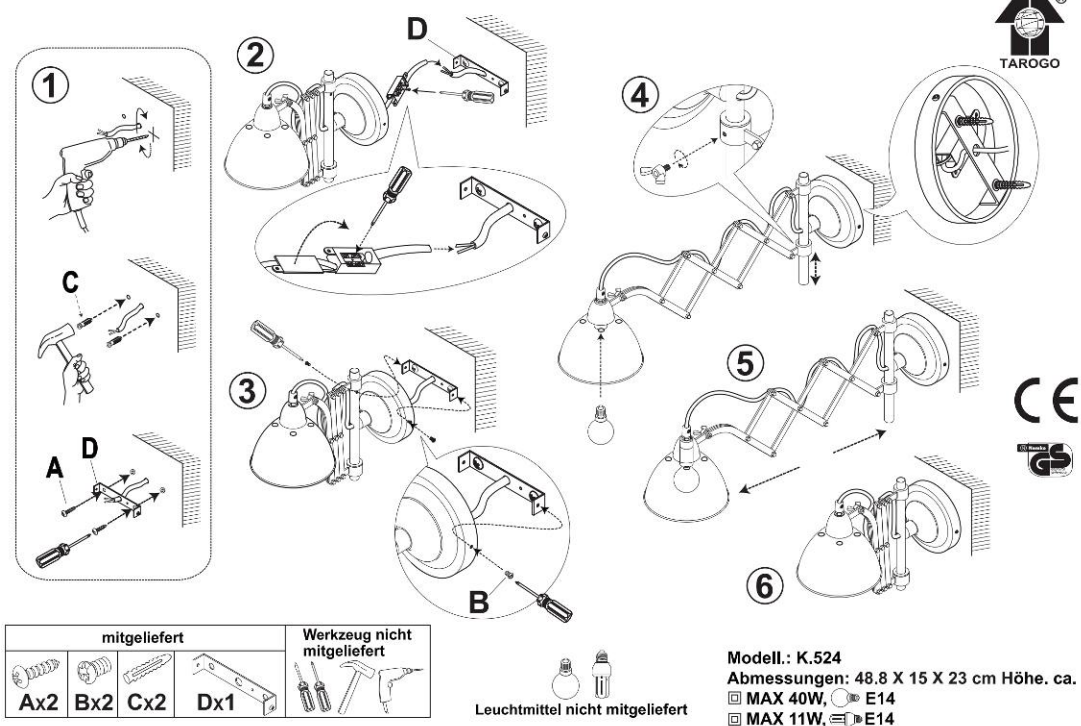


Warnung! Mögliche Verletzungsgefahr durch dünne Metallstangen! Diese Leuchte darf nur ausserhalb des Handbereichs installiert werden. Die Distanz zwischen dem Fussboden und der untersten Kante der Leuchte muss mindestens 2,5 Meter betragen.

AUFBAU ANLEITUNG



AUFBAU ANLEITUNG



Attachment 5: Pictures from manufacturers catalogue

	
ITEM NO. R.F19 SIZE: 85 DIA X 24 CM H. MAX. 60W, E27	ITEM NO. M.Z62 SIZE: 60 X 52 X 48CM H. 6 X MAX.60W, E27
	
ITEM NO. R.R8X SIZE: 40 DIA. X 48CM H. MAX. 60W, E27	ITEM NO. G.MA1 SIZE:40 DIA. X 31CM H. MAX.60W, E27
	
ITEM NO. M.CPB SIZE: 26 X 20 X 33CM H. MAX. 40W, E27	ITEM NO. G.CP2 SIZE: 45.5 DIA. X30.5CM H. MAX. 60W, E27

	
ITEM NO. K.MA2 SIZE: 50 DIA. X 45CM H. MAX. 60W, E27	ITEM NO. R.T86 SIZE: 35 DIA. X 24.5CM H. MAX.60W, E27
	
ITEM NO. R.F8A SIZE: 54 DIA. X 32CM H. MAX. 60W, E27	ITEM NO. R.MA5 SIZE: 112 X 20 X 114CM H. 3 X MAX.60W, E27
	
ITEM NO. R.W14 SIZE: 450CM LENGTH MAX. 60W, E27	ITEM NO. K.278 SIZE: 30 DIA. X 22CM H. MAX. 60W, E27

	
ITEM NO. E.L83 SIZE: 42 DIA X 38 CM H. MAX. 60W, E27	ITEM NO. G.52A SIZE: 56 DIA. X 37 CM H. MAX.60W, E27
	
ITEM NO. G.86P SIZE: 50 DIA. X 25 CM H. MAX. 60W, E27	ITEM NO. G.87L SIZE: 46 DIA. X 30 CM H. MAX.60W, E27
	
ITEM NO. M.88L SIZE: 52 X 47 X 56 CM H. 3 X MAX. 60W, E27	ITEM NO. R.129 SIZE: 18.5 DIA. X 29.5 CM H. MAX. 60W, E27

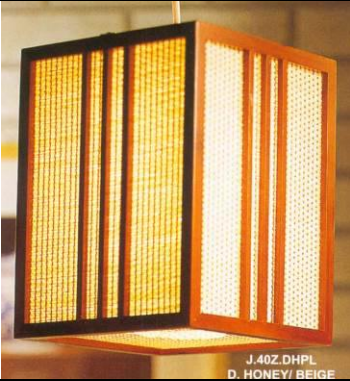
	
ITEM NO. C.B5G SIZE: 24.5 X 24.5 X 48 CM H. MAX. 60W, E27	ITEM NO. G.58B SIZE: 45 DIA. X 74 CM H. MAX.60W, E27
	
ITEM NO. G.483 SIZE: 50 DIA. X 49 CM H. MAX. 60W, E27	ITEM NO.R.B3E SIZE: 30 DIA. X 21CM H. MAX.60W, E27
	
ITEM NO. R.B3F SIZE: 40 DIA. X 30CM H. MAX. 60W, E27	ITEM NO. G.481 SIZE: 40 DIA. X 39 CM H. MAX. 60W, E27

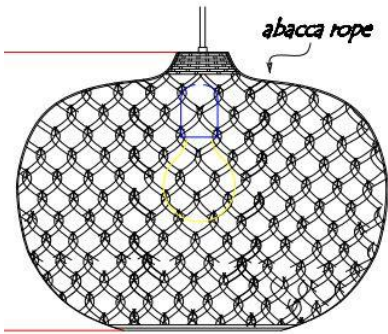
	
ITEM NO. H.P82 SIZE: 30 DIA. X 46 CM H. MAX. 60W, E27	ITEM NO. M.93U SIZE: 45 DIA. X 31.5 CM H. MAX.60W, E27
	
ITEM NO. R.X81 SIZE: 25 DIA. X 56 CM H. MAX.60W, E27	ITEM NO. V.55X SHADE#1-25.5 DIA. X 23 CM H. SHADE#2-38 DIA. X 35.5 CM H. SHADE#3-43 DIA. X 43 CM H. 3 X MAX. 60W, E27
	
ITEM NO. X.51D SIZE: 39 DIA. X 24 CM H. MAX. 60W, E27	ITEM NO. Y.W50 SIZE: 50 DIA. X 24.5 CM H. MAX. 60W, E27

	
ITEM NO. R.AN5 SIZE: 24 DIA. X 33 CM H. MAX.60W, E27	ITEM NO. R.B2B SIZE: 43 DIA. X 31 CM H. MAX. 60W, E27
	
ITEM NO. R.L02 SIZE: 32 X 30 X 32 CM H. MAX.60W, E27	ITEM NO. Y.56C SIZE: 30 DIA. X 20 CM H. MAX.60W, E27
	
ITEM NO. G.KHN SIZE: 30 DIA. X 29CM H. MAX.60W, E27	ITEM NO. M.H30 SIZE: 42 DIA. X 40 CM H. MAX.60W, E27

	
ITEM NO. R.B17 SIZE: 20 X 20 X 20 CM H. MAX. 60W, E27X3	ITEM NO. M.HL8 SIZE: 80 X 25 X 120 H. CM MAX. 60W, E27X3
	
ITEM NO. Y.WTP SIZE: T 29 DIA. X B 34 DIA. X 22 CM H. MAX. 60W, E27X1	ITEM NO. R.WX4 SIZE: 44 DIA. X 60 H. CM MAX. 60W, E27X1

	
ITEM NO. R.WX5 SIZE: 40 DIA. X 28 H. CM MAX. 60W, E27X1	ITEM NO. F.789 SIZE: 35 DIA. X 23 CM H. MAX. 60W, E27X1
	
ITEM NO. R.W8C SIZE: 38 DIA. X 20 CM H. MAX. 60W, E27X1	ITEM NO. R.B1D SIZE: 20 DIA. X 27 CM H. MAX. 60W, E27X1
	
ITEM NO. R.R7C SIZE: 55 DIA. X 68 CM H. MAX. 60W, E27X1	ITEM NO. 1.007 SIZE: 40 DIA. CM H. MAX. 60W, E27X1

	
ITEM NO. J.40Z SIZE: 18 X 18 X 23 CM H. MAX. 60W, E27X1	ITEM NO. J.149 SIZE: 19.5 X 19.5 X 23.5 CM H. MAX. 60W, E27X1
	
ITEM NO. W.85B SIZE: 43 DIA X 40 CM H. MAX. 60W, E27X1	ITEM NO. G.S2H SIZE: 24 DIA. X 40 CM H. MAX. 60W, E27X1
	
ITEM NO. K.254 SIZE: 22 DIA. X 35.5 CM H. MAX. 60W, E27X1	ITEM NO. R.81G SIZE: 53.5 DIA. X 20 CM H. MAX. 60W, E27X1

	
ITEM NO. R.D97 SIZE: 40 DIA. X 18.5 CM H. MAX. 60W, E27X1	ITEM NO. W.G79 SIZE: 39 X 29 X 120 CM H. MAX. 60W, E27X1
	
ITEM NO. W.RA1 SIZE: 40 DIA. X 50 CM H. MAX. 60W, E27X1	ITEM NO. W.Y23 SIZE: 40 X 40 X 40 CM H. MAX. 60W, E27X1
	
ITEM NO. W.S5B SIZE: 40 X 40 X 40 CM H. MAX. 60W, E27X1	ITEM NO. R.CSR SIZE: 50DIA. X 38.5 CM H. MAX. 60W, E27X1

	
ITEM NO. W.Y35 SIZE: 40 DIA CM H. MAX. 60W, E27X1	TEM NO. R.X5F SIZE: 45 DIA. X 46 CM H. MAX. 60W, E27X1
 2.447.BKG80 BLACK/	 J.034.06KW
ITEM NO. 2.447 SIZE: 20 X 20 X 24.7 CM H. MAX. 60W, E27X1	ITEM NO. J.034 SIZE: 19.5 X 19.5 X 28.5 CM H. MAX. 60W, E27X1
 J.035.01KW	
ITEM NO. J.035 SIZE: 19.5 X 19.5 X 28.5 CM H. MAX. 60W, E27X1	ITEM NO. J.070 SIZE: 22 X 22 X 25.5 CM H. MAX. 60W, E27X1

	
ITEM NO. R.PL1 SIZE: 21 DIA. X 45.5 CM H. MAX. 60W, E27X1	ITEM NO. M.HL9 SIZE: 100 X 30 X 120 CM H. MAX. 60W, E27X3
	
ITEM NO. R.CS3 SIZE: 61DIA. X 41.5 CM H. MAX. 60W, E27X1	ITEM NO. R.CS4 SIZE: 53DIA. X 50.5 CM H. MAX. 60W, E27X1
	
ITEM NO. R.CS6 SIZE: 50DIA. X 38.5 CM H. MAX. 60W, E27X1	ITEM NO. R.CS9 SIZE: 30.5DIA. X 23 CM H. MAX. 60W, E27X1

	
ITEM NO. G.S76 SIZE: 25 DIA X 30 CM H. MAX. 60W, E27X1	ITEM NO. R.CS8 SIZE: 46.5 DIA. X 21 CM H. MAX. 60W, E27X1
	
ITEM NO. R.R80 SIZE: 66 DIA. X 66 CM H. MAX. 60W, E27X1	ITEM NO. M.HL7 SIZE: 25DIA. X 120 CM H. MAX. 60W, E27X1
 R.32J.0 NATUR BLAC	
ITEM NO. R.32J SIZE: 25DIA. X 31 CM H. MAX. 60W, E27X1	ITEM NO. R.32K SIZE: 40 DIA. X 47 CM H. MAX. 60W, E27X1

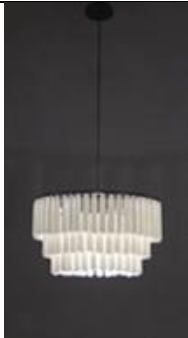
 R.Z81.NANA NATURAL/ NATURAL	
ITEM NO. R.Z81 SIZE: 25DIA. X 61.5 CM H. MAX. 60W, E27X1	TEM NO. R.AN1 SIZE: 29 DIA. X 46.5 CM H. MAX. 60W, E27X1
	
ITEM NO. R.AN2 SIZE: 38.5 DIA. X 59.5 CM H. MAX. 60W, E27X1	ITEM NO. R.AN7 SIZE: 20 DIA. X 32 CM H. MAX. 60W, E27X1
	
ITEM NO. R.AN8 SIZE: 30 DIA. X 56 CM H. MAX. 60W, E27X1	ITEM NO. R.ANA SIZE: 50 DIA. X 32 CM H. MAX. 60W, E27X1

	
ITEM NO. R.F09 SIZE: 85 DIA. X 24 CM H. MAX. 60W, E27X1	ITEM NO. R.F9P SIZE: 42 DIA. X 60 CM H. MAX. 60W, E27X1
	
ITEM NO. R.W8C SIZE: 38 DIA. X 20 CM H. MAX. 60W, E27X1	ITEM NO. W.RA2 SIZE: 40 DIA. X 49.5CM H. MAX. 60W, E27X1
	 R.R7B.0600 NATURAL
ITEM NO. Z.Q5A SIZE: 45 DIA. X 45 CM H. MAX. 60W, E27X1	ITEM NO. R.R7B SIZE: 56DIA. X 67.5 CM H. MAX. 60W, E27X1

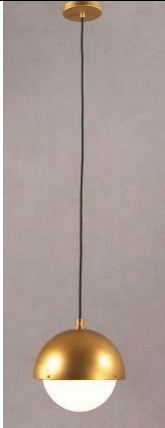
 R.T85.0600	
ITEM NO. R.T85 SIZE: 18.5 DIA. X 32 H. CM MAX. 60W, E27X1	ITEM NO. R.T87 SIZE: 30 DIA. X 40 CM H. MAX. 60W, E27X1

 R.F8B.M02NA17C	
ITEM NO. R.F8B SIZE: 73 DIA. X 43 CM H. MAX. 60W, E27X1	ITEM NO. R.RM2 SIZE: 60 DIA X 50 H CM MAX. 60W, E27X1
	

ITEM NO. M.P62 SIZE: 60 X 52 X 48 CM H. MAX. 60W, E27X6 	ITEM NO. G.K7Z SIZE: 18 DIA. X 23 CM H. MAX. 60W, E27X1 
ITEM NO. M.KR4 SIZE: 28 DIA. X 23.5 CM H. MAX. 60W, E27X1 	ITEM NO. X.885 SIZE: 11 DIA. X 120 CM H. MAX. 60W, E27X1 
ITEM NO. X.8R7 SIZE: 12 DIA. X 120 CM H. MAX. 60W, E27X1 	ITEM NO. M.CPF SIZE: 62.5 X 18.5 X 120 CM H. MAX. 60W, E27X3 
ITEM NO. G.XB7 SIZE: 23 DIA. X 24.5 CM H. MAX. 60W, E27X1 	ITEM NO. G.XB8 SIZE: 47 X 44 X 107.5CM H. 3 X MAX. 60W, E27 

	
ITEM NO. R.RX7 SIZE: 45 DIA. X 47 CM H. MAX. 60W, E27X1	ITEM NO. R.RX8 SIZE: 55 DIA. X 57 CM H. MAX. 60W, E27X1
	
ITEM NO. R.HL2 SIZE: 80 CM DIA. MAX. 60W, E27X1	ITEM NO. M.CR9 SIZE: 50 DIA. X 32CM H. MAX. 60W, E27X1
	
ITEM NO. G.X7Y SIZE: 65 DIA. X 35CM H. 3 X MAX. 60W, E27	ITEM NO. W.MA2 SIZE: 100 X 10 X 120CM H. 7 X MAX. 60W, E27

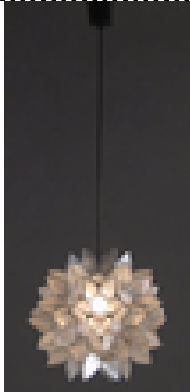
	
ITEM NO. W.MA3 SIZE: 100 X 10 X 120CM H. 7 X MAX. 60W, E27	ITEM NO. W.TX3 SIZE: 100 X 11 X 150CM H. 5 X MAX. 60W, E27
	
ITEM NO. W.8RL SIZE: 120 X 26 X 150CM H. 6 X MAX. 60W, E27	ITEM NO.: R.G8P SIZE: 46 DIA. X 30CM H. MAX. 60W, E27
	
ITEM NO. R.W25 SIZE: 44 DIA. X 120CM H. MAX. 60W, E27	ITEM NO.: G.HCQ SIZE: 37 DIA. X 20.5CM H. MAX. 60W, E27

	
ITEM NO. M.CF8 SIZE: 25 DIA. X 120 H. CM MAX. 60W, E27	ITEM NO. R.R8W SIZE: 30 DIA. X 36CM H. MAX. 60W, E27
	
ITEM NO. G.CPM SIZE: 36 DIA. X 25CM H. MAX. 60W, E27	ITEM NO.: G.PB5 SIZE: 65 DIA. X 64CM H. MAX. 60W, E27
	
ITEM NO. R.CRA SIZE: 35 DIA. X 47CM H. MAX. 60W, E27	ITEM NO.: R.CRB SIZE: 44.5 DIA. X 28.5CM H. MAX. 60W, E27

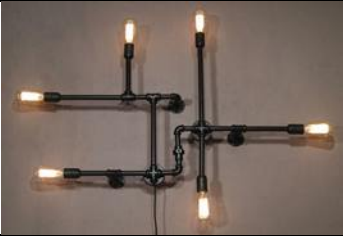
	
ITEM NO. R.CRC SIZE: 19 DIA. X 40 H. CM MAX. 60W, E27	ITEM NO. R.PBJ SIZE: 45 DIA. X 35CM H. MAX. 60W, E27
	
ITEM NO. R.R8T SIZE: 35 DIA. X 33CM H. MAX. 60W, E27	ITEM NO.: R.R8U SIZE: 50 DIA. X 48CM H. MAX. 60W, E27
	
ITEM NO. R.B3H SIZE: 45 DIA. X 30CM H. MAX. 60W, E27	ITEM NO.: G.S75 SIZE: 21.5 DIA. X 25.5CM H. MAX. 60W, E27

	
ITEM NO. R.FSD SIZE: 40 DIA. X 34.5 H. CM MAX. 60W, E27	ITEM NO. W.S57 SIZE: 17.5 X 17.5 X 35.5CM H. MAX. 60W, E27
	
ITEM NO. G.K7Q SIZE: 34 DIA. X 39CM H. MAX. 25W, E27	ITEM NO. W.8SK SIZE: 80 X 44 X 8.5 CM H. MAX. 60W, E27X3
	
ITEM NO. R.MD3 SIZE: 105 DIA. X 38 CM H. MAX. 60W, E27	ITEM NO. R.MP8 SIZE: 51 DIA. X 51 CM H. MAX. 60W, E27

	
ITEM NO. K.CRX SIZE: 30 DIA. X 45.5 CM H. MAX. 60W, E27	ITEM NO. R.R8P SIZE: 61 DIA. X 43 CM H. MAX. 60W, E27
	
ITEM NO. R.X9T SIZE: 79 DIA. X 27.5 CM H. MAX. 60W, E27	ITEM NO. R.ANY SIZE: 35 DIA. X 25 CM H. MAX. 60W, E27
	
ITEM NO. R.ANZ SIZE: 50 DIA. X 32 CM H. MAX. 60W, E27	ITEM NO. R.32F SIZE: 25 DIA. X 31 CM H. MAX. 60W, E27

	
ITEM NO. G.913 SIZE: 35 DIA. X 32 CM H. MAX. 60W, E27	ITEM NO. Z.Y5B SIZE: 46 X 44 X 55CM H. MAX. 60W, E27
	
ITEM NO. W.RA5 SIZE: 16.5 DIA. X 50CM H. MAX. 60W, E27	ITEM NO. R.ASB SIZE: 39 DIA. X 120CM H. MAX. 60W, E27
	
ITEM NO. R.ASA SIZE: 29.5 DIA. X 24.5 CM H. MAX. 60W, E27	ITEM NO. K.524 SIZE: 48.8 X 15 X 23CM H. MAX. 40W, E14

	
ITEM NO. G.KHM SIZE: 20 DIA. X 19CM H. MAX.40W, E14	ITEM NO. R.1R5 SIZE: 30 DIA. X 120 CM H. MAX. 40W, E14X1
	
ITEM NO. M.CPX SIZE: 52 DIA. X 110 CM H MAX. 40W, E14X9	ITEM NO. M.M21 SIZE: 61 X 23 X 40CM H. MAX. 40W, E14
	
ITEM NO. M.CQ9 SIZE: 47 DIA. X 24CM H. 3 X MAX. 40W, E14	ITEM NO. W.RAA SIZE:80 DIA. X 120CM H. 6 X MAX. 40W, E14

	
ITEM NO. R.RRA SIZE: 35 DIA. X 47 CM H. MAX. 60W, E27	ITEM NO. R.RRB SIZE: 44.5 DIA. X 28.5 CM H. MAX. 60W, E27
	
ITEM NO. R.RRC SIZE: 19 DIA. X 40 CM H. MAX. 60W, E27	ITEM NO. K.281 SIZE: 50 DIA. X 35 CM H. MAX. 60W, E27
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ITEM NO. M.PT4 SIZE: 106.5 X 12 X 63.5 H. CM MAX. 60W, E27X6	---