Łukasiewicz- IMiF PREDOM
Division
53, Krakowiaków Str.
02-255 WARSAW, POLAND

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LICENCE

CERTIFICATE/*CERTYFIKAT*
to use the European Mark
Licencja na używanie europejskiego Znaku

Licence/Certificate No. / *Licencja/ Certyfikat Nr* **0296/ENEC/22**

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LUG Light Factory Sp. z o.o.
ul. Gorzowska 11, 65-127 Zielona Góra, Polska / Poland

For the products: *Dla wyrobów:*
Luminaires for road and street lighting *Oprawy oświetleniowe drogowe i uliczne*

Manufacturing place: *Miejsce Produkcji*
LUG Light Factory Sp. z o.o.
ul. Gorzowska 11, 65-127 Zielona Góra, Polska / Poland

Trade name: *Znak towarowy:*
LUG

Type(s)/Model(s): *Typ(y), model(e):*
URBINO LED IK10 family cl. II – series (see Appendix/ *patrz Załącznik*)
Technical data/ *Dane Techniczne*: 220-240V, 50/60Hz, IP 66, cl. II – details in the Appendix/*Szczegóły w Załączniku*

Complying with the following European Standards: *Zgodnymi z następującymi normami europejskimi*
EN 60598-2-3:2003
EN 60598-2-3:2003/A1:2011
EN IEC 60598-1:2021
EN IEC 60598-1:2021/A11:2022
EN 62262:2002

(the test reports/ *raporty z badań:* Ref. No. B10-3/124/B/22 + Att. No. 1 (EU GD and ND rep. ref. B10-3/124/B/1/22) dated 21.0.09.2022 B10-3/125/B/22 dated 30.08.2022 performed by the Testing Laboratory Łukasiewicz-IMiF PREDOM Division (Accreditation PCA AB 003).

Date:*Data* 30-09-2022

Signatures:

Name:	Józef Foks	Filip Walczak
Position:	Certification Office Łukasiewicz- IMiF PREDOM	Leader of the Łukasiewicz- IMiF PREDOM Division

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Additional information – see the Appendix.
Dodatkowe informacje – patrz Załącznik.

Digitally signed by Ene Maria
Date: 2024.09.24 11:47:20 EEST
Reason: MoldSign Signature
Location: Moldova

Łukasiewicz- IMiF PREDOM Division
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APPENDIX TO THE LICENCE/CERTIFICATE No. 0296/ENEC/22

Name and address of the license holder:	**LUG Light Factory Sp. z o.o. ul. Gorzowska 11, 65-127 Zielona Góra - Poland**
Address of the factory:	**LUG Light Factory Sp. z o.o. ul. Gorzowska 11, 65-127 Zielona Góra - Poland**
Name of product:	**URBINO LED IK10 family**
Trade mark :	LUG
Technical data:	
Rated voltage	**220-240V**
Rated frequency:	**50/60Hz**
Protection against electric shock:	**Class II**
Degree of protection:	**IP66; IK10**
ta	-40˚C to 50˚C -35˚C to 50˚C* -30˚C to 50˚C** -25˚C to 50˚C***

* - For luminaires equipped with:
- Vossloh Schwabe SPC/230/10K/i

** - For luminaires equipped with:
- Tridonic LCA 120W 300-1050mA
- Philips Xi FP 70W 0.3-1.0A NLD C150 230V sXt
- Philips Xi FP 110W 0.3-1.0A NLD C150 230V sXt
- Vossloh Schwabe SP/230/10K

*** - For luminaires equipped with:
- LACROIX DL-PAK 70

Choice sheet of the luminaires URBINO LED IK10 family cl II – series

Example of symbol:

130822.5LR7B27S1405.201.B.V

1 2 3 4 5 6 7 8 9

Designations used on the marking of luminaries (some designation may not appear in the name) :

1	13075 13082	-	Code of the series URBINO LED IK10 with LED Cree XPG3 modules Code of the series URBINO LED IK10 with LED Luxeon 5050 modules
2	2	-	Color: 2: grey 5: graphite 0: another
3	7L	-	Type of power sypply: 2L - DIMM 1-10V 3L – DALI 5L – on-off 6L – on-off / DALI 7L - ZHAGA D4i PL – programmable
4	R7	-	CRI: R7 = 70-79 R8 = 80-89
5	B40	-	Color temperature: B22 = 2200 B27 = 2700 B30 = 3000 B40 = 4000 B57 = 5700 B65 = 6500
6	S1450	-	Max. luminous flux (e.g. S1450 = 1450lm)
7	2	-	Safety Class II

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8	01	-	Optic: 01 O1 - for road lighting type O1 02 O2 - for road lighting type O2 99 O99 - for road lighting type O99
9	N.P	-	Additional equipment A - additional corrosion protection B - Tool-free access to the LED Driver U - ø76mm pole N - NEMA Socket Z - ZHAGA Socket T - NTC Sensor W - Twilight Sensor V - Surge Device Protector 10kV P - Anti pressure vent I - iBloc ("URBAN" smart city system) K - Knife switch connector

List of LED's and electronic led driver's system:

Control gear's	P [W]	U min [V]	U compatible [V]	I compatible [mA]
OT180W/UNV/800C/2DIMLT2/P6	180	82	280	800
OT100W/UNV/800C/2DIMLT2/P6	100	50	185	800
OT 110/170...240/1A0 1DIMLT2 G1 CE	110	80	220	1050
OT 20/170-240/1A0 1DIM LT2 G1 CE	22	10	38	1050
OT 75/170...240/1A0 1DIMLT2 G1 CE	75	35	115	1050
Xi Dim 250W 0.7A 1-10V 230V	250	178	357	700
Xi LP 150W 0.3-1.0A S1 230V S240 sXt	150	70	214	1050
LCA 120W 300-1050mA 1-10V ADV	120	40	114	1050
LCA 75W 250–750mA one4all C	75	45	130	750
LCA 120W 350–1050mA o	120	105	320	1050
LCA 160W 350–1050mA o	160	105	320	1050
OT DX 40/220...240/1A0 DIMA LT2 E	40	15	56	1050
OT DX 75/220...240/1A0 DIMA LT2 E	75	35	115	1050
OT DX 110/220...240/1A0 DIMA LT2 E	110	75	220	1050
OT DX 165/220...240/1A0 DIMA LT2 E	165	130	260	1050
OT 20/170...240/1A0 4DIMLT2 G2 CE	20	10	38	1050
OT 40/170...240/1A0 4DIMLT2 G2 CE	40	15	56	1050
OT 75/170...240/1A0 4DIMLT2 G2 CE	75	35	115	1050
OT 110/170...240/1A0 4DIMLT2 G2 CE	110	80	220	1050
OT 20/170...240/1A0 1DIMLT2 G1 CE	20	10	38	1050
OT 40/170...240/1A0 1DIMLT2 G1 CE	40	15	56	1050
OT 40/120...277/1A0 4DIMLT2 E	40	15	56	1050
OT 60/170...240/1A0 4DIMLT2 E	60	30	115	1050
OT 90/170...240/1A0 4DIMLT2 E	90	57	186	1050
OT 165/170...240/1A0 4DIMLT2 E	165	90	285	1050
OT 50/120...277/800 2DIMLT2 P	50	30	115	800
OT 50/120...277/1A2 2DIMLT2 P	50	20	55	1250
OT 100/120...277/800 2DIMLT2 P	100	50	186	800
OT 110/120...277/1A4 2DIMLT2 P	110	35	85	1400
OT 60/220...240/1A4 1DIMA P7	60	43	86	1400
OT 100/220...240/1A4 1DIMA P7	100	72	144	1400
OT 150/220...240/1A4 1DIMA P7	150	91	350	1400
OT 200/220...240/1A4 1DIMA P7	200	121	286	1400
Xitanium 40W 0.7A Prog+ GL-J sXt	40	29	57	700
Xitanium 75W 0.35-0.70A GL Prog+ sXt	75	80	152	700
Xitanium 75W 0.1-1.05A Prog GL F sXt	75	36	75	1050
Xitanium 100W 0.7A Prog+ GL-Z sXt	100	71	143	700
Xitanium 150W 0.1-1.05A Prog+ GL F sXt	150	70	148	1050
Xitanium 150W 0.35-0.70A GL Prog sXt	150	125	280	700
Xitanium 300W 1.5A Prog+ GL-R sXt	300	80	280	1050
Xi BP 12W 0.1-0.5A S 230V C100	12	13	39	500
Xi BP 22W 0.2-0.7A S 230V C123	22	16	48	700
Xi BP 40W 0.2-0.7A S 230V C123	40	25	77	700
Xi BP 40W 0.3-1.0A S 230V C123	40	20	54	1000
Xi LP 22W 0.2-0.7A S1 230V C123 sXt	22	16	48	700
Xi LP 22W 0.3-1.0A S1 230V C123 sXt	22	8	32	1000
Xi LP 40W 0.2-0.7A S1 230V C123 sXt	40	25	77	700
Xi LP 40W 0.3-1.0A S1 230V C123 sXt	40	20	54	1000
Xi LP 75W 0.2-0.7A S1 230V C133 sXt	75	50	150	700
Xi LP 75W 0.3-1.0A S1 230V C133 sXt	75	35	108	1000
Xi LP 75W 0.5-1.5A S1 230V C133 sXt	75	25	75	1500
Xi LP 110W 0.2-0.7A S1 230V C133 sXt	110	70	220	700
Xi LP 110W 0.3-1.0A S1 230V C133 sXt	110	50	160	1000
Xi LP 165W 0.2-0.7A S1 230V C170 sXt	165	100	300	700
Xi LP 165W 0.3-1.0A S1 230V C170 sXt	165	80	235	1000
Xi LP 165W 0.5-1.5A S1 230V C170 sXt	165	54	157	1500
Xi LP 22W 0.2-0.7A S1 230V S175 sXt	22	16	48	700
Xi LP 22W 0.3-1.0A S1 230V S175 sXt	22	8	32	1000
Xi LP 40W 0.2 -0.7A S1 230V S175 sXt	40	23	77	700
Xi LP 40W 0.2-0.7A SL 230V S175 sXt	40	25	77	700
Xi LP 40W 0.3-1.0A S1 230V S175 sXt	40	20	54	1000
Xi LP 40W 0.3-1.0A SL 230V S175 sXt	40	20	54	1000

Module's*

Choice sheet of the URBINO LED IK10 series modules:

Example of symbol:

ML21XXXYY.WQQQ.UUV

1 2 3 4 5 6 7 8

Designations used on the marking of LED boards:

1. ML - PCB designation (ML – LED module).
2. 21 - Year of the project.
3. XXX - Number of the project:
   Luxeon 5050 modules: 660, 661, 662, 663, 670, 671, 672, 673, 680, 681, 682, 683, 690, 691, 692, 693
   Cree XPG3 modules: 600, 601, 610, 611
4. YY - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration):
   00...99
5. W - Light color:
   W: White
6. QQQ - CRI and CCT:
   722: CRI 70 and 2200K
   727: CRI 70 and 2700K
   730: CRI 70 and 3000K
   735: CRI 70 and 3500K
   740: CRI 70 and 4000K
   750: CRI 70 and 5000K
   757: CRI 70 and 5700K
   765: CRI 70 and 6500K
   822: CRI 80 and 2200K
   827: CRI 80 and 2700K
   830: CRI 80 and 3000K
   835: CRI 80 and 3500K
   840: CRI 80 and 4000K
   850: CRI 80 and 5000K
   857: CRI 80 and 5700K
   865: CRI 80 and 6500K
7. UU - Assembly variant (selected components not mounted):
   01...99
8. V - NTC Thermistor type:
   A - none
   B – 10K
   C – 47K

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Control gear's	P [W]	U min [V]	U compatible [V]	I compatible [mA]	Module's*
Xi LP 40W 0.2-0.7A SN 230V S175 sXt	40	25	77	700	
Xi LP 75W 0.2-0.7A S1 230V S240 sXt	75	50	150	700	
Xi LP 75W 0.2-0.7A SL 230V S240 sXt	75	50	150	700	
Xi LP 75W 0.3-1.0A S1 230V S240 sXt	75	35	108	1000	
Xi LP 75W 0.3-1.0A SL 230V S240 sXt	75	35	108	1000	
Xi LP 75W 0.2-0.7A SN 230V S240 sXt	75	50	150	700	
Xi LP 75W 0.5-1.5A S1 230V S240 sXt	75	25	75	1500	
Xi LP 150W 0.2-0.7A S1 230V S240 sXt	150	90	283	700	
Xi LP 150W 0.2-0.7A SL 230V S240 sXt	150	90	283	700	
Xi LP 150W 0.3-1.0A SL 230V S240 sXt	150	70	214	1000	
Xi LP 150W 0.5-1.5A S1 230V S240 sXt	150	50	142	1500	
Xi LP 150W 0.2-0.7A SN 230V S240 sXt	150	90	283	700	
Xi FP 22W 0.2-0.7A SNLDAE 230V C123 sXt	22	16	48	700	
Xi FP 22W 0.3-1.0A SNLDAE 230V C123 sXt	22	8	32	1000	
Xi FP 40W 0.2-0.7A SNLDAE 230V C123 sXt	40	25	77	700	
Xi FP 70W 0.3-1.0A NLD C150 230V sXt	70	30	100	1000	
Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	40	20	54	1000	
Xi FP 75W 0.2-0.7A SNLDAE 230V C133 sXt	75	50	150	700	
Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	75	35	108	1000	
Xi FP 75W 0.5-1.5A SNLDAE 230V C133 sXt	75	25	71	1500	
Xi FP 100W 0.2-0.7A SNLDAE 230V C165 sXt	100	50	150	700	
Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt	110	70	220	700	
Xi FP 110W 0.3-1.0A NLD C150 230V sXt	110	60	200	1000	
Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	110	50	160	1000	
Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	165	80	235	1000	
Xi FP 165W 0.2-0.7A SNLDAE 230V C170 sXt	165	100	300	700	
Xi FP 330W 0.2-0.75A SNDAE 230V C240 sXt	330	100	300	750	
Xi FP 22W 0.2-0.7A SNLDAE 230V S175 sXt	22	16	48	700	
Xi FP 22W 0.3-1.0A SNLDAE 230V S175 sXt	22	8	32	1000	
Xi FP 40W 0.2-7.0A SNLDAE 230V S175 sXt	40	25	77	700	
Xi FP 40W 0.3-1.0A SNLDAE 230V S175 sXt	40	20	54	1000	
Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt	75	50	150	700	
Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt	75	35	108	1000	
Xi FP 150W 0.2-0.7A SNLDAE 230V S240 sXt	150	90	283	700	
Xi FP 150W 0.3-1.0A SNLDAE 230V S240 sXt	150	70	214	1000	
Xi SR 12W 0.2-0.7A SNEMP 230V C133 sXt	12	8	32	700	
Xi SR 22W 0.2-0.7A SNEMP 230V C133 sXt	22	16	48	700	
Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt	40	25	77	700	
Xi SR 75W 0.2-0.7A SNEMP 230V C150 sXt	75	50	150	700	
Xi SR 75W 0.2-0.7A SNEMP 230V S240 sXt	75	50	150	700	
Xi SR 110W 0.2-0.7A SNEMP 230V C150 sXt	110	70	220	700	
Xi SR 150W 0.2-0.7A SNEMP 230V S240 sXt	150	90	283	700	
Xitanium 100W 2.1-4.2A AOC 230V I220	100	12	48	4200	
Xitanium 150W 2.5-4.9A AOC 230V I220	150	15	61	4900	
Xitanium 200W 2.8-5.6A AOC 230V I250	200	18	71	5600	
Xi LP 100W 0.3-1.05A S1 230V I175	100	46	143	1000	
Xi LP 150W 0.3-1.05A S1 230V I175	150	72	214	1000	
Xi LP 220W 0.3-1.05A S1 230V I230	220	104	314	1000	
Xi LP 220W 0.5-1.5A S1 230V I230	220	73	210	1500	
Xitanium Dim 35W 0.7A 1-10V TWE I175	35	18	50	700	
Xitanium Dim 100W 0.7A 1-10V TWE I220	100	71	143	700	
Xitanium Dim 150W 0.7A 1-10V TWE I220	150	90	214	700	
Xitanium 75W 0.7A TWE I175	75	40	117	700	
Xitanium 150W 0.7A TWE I220	150	90	214	700	
Xitanium 75W 1.05A 1-10V 230V C165 sXt	75	36	75	1000	
Xitanium 75W 0.70A 1-10V 230V C165 sXt	75	52	107	700	
Xitanium 150W 0.70A 1-10V 230V S240 sXt	150	100	214	700	
Xitanium 150W 1.05A 1-10V 230V S240 sXt	150	72	150	1000	
Xitanium Dim 250W 0.70A 1-10V 230V Q	250	178	357	700	
Xitanium Dim 75W 0.70A 1-10V 230V I220	75	52	107	700	
Xitanium Dim 150W 0.70A 1-10V 230V I220	150	90	214	700	
Xitanium Dim 250W 0.70A 1-10V 230V I220	250	178	357	700	
Xitanium 75W 1-10V 230V C165	75	52	107	700	
Xitanium 250W 1-10V 230V I220	250	118	238	700	
Xitanium 250W 1-10V 230V Q	250	118	238	700	
LCO 14/100-500/38 NF C ADV3	14	12	38	500	
LCO 24/200-1050/39 NF C ADV3	24	11	39	1050	
LCO 40/200-1050/64 NF C ADV3	40	18	64	1050	
LCO 60/200-1050/100 NF C ADV3	60	28	100	1050	

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Control gear's	P [W]	U min [V]	U compatible [V]	I compatible [mA]	Module's*
LCO 90/200-1050/165 NF C ADV3	90	46	165	1050	
LCO 135/200-1050/220 NF C ADV3	135	62	220	1050	
LCO 200/200-1050/355 NF C ADV3	200	100	355	1050	
LCO 14/100-500/38 o4a NF C EXC3	14	12	38	500	
LCO 24/200-1050/39 o4a NF C EXC3	24	11	39	1050	
LCO 40/200-1050/64 o4a NF C EXC3	40	18	64	1050	
LCO 60/200-1050/100 o4a NF C EXC3	60	28	100	1050	
LCO 90/200-1050/165 o4a NF C EXC3	90	46	165	1050	
LCO 135/200-1050/220 o4a NF C EXC3	135	62	220	1050	
LCO 200/200-1050/355 o4a NF C EXC3	200	100	355	1050	
LCO 100/1050/95 fixC L SNC2	100	29	95	1050	
LCO 100/1400/71 fixC L SNC2	100	21	71	1400	
LCO 100/500/200 fixC L SNC2	100	60	200	500	
LCO 100/700/143 fixC L SNC2	100	43	143	700	
LCO 150/1050/142 fixC L SNC2	150	43	142	1050	
LCO 150/1400/107 fixC L SNC2	150	32	107	1400	
LCO 150/500/300 fixC L SNC2	150	90	300	500	
LCO 150/700/214 fixC L SNC2	150	64	214	700	
LCO 200/1050/190 fixC L SNC2	200	63	190	1050	
LCO 200/1400/142 fixC L SNC2	200	47	142	1400	
LCO 200/500/400 fixC L SNC2	200	133	400	500	
LCO 200/700/285 fixC L SNC2	200	95	285	700	
LCO 75/1050/72 fixC L SNC2	75	22	72	1050	
LCO 75/1400/53 fixC L SNC2	75	16	53	1400	
LCO 75/500/150 fixC L SNC2	75	45	150	500	
LCO 75/700/108 fixC L SNC2	75	32	108	700	
OT 165/220...240/1A0 1DIM G2 CE	165	130	260	1050	
OT 165/170...240/1A0 4DIMLT2 G2 CE	165	130	260	1050	
LCO 200W 200–1050mA 355V pD+ NFC C PRE3	200	169	355	1050	
LCO 135W 200–1050mA 220V pD+ NFC C PRE3	135	104	220	1050	
LCO 90W 200–1050mA 165V pD+ NFC C PRE3	90	78	165	1050	
OT 100/UNV/1A0 2DIM P7	100	75	150	1050	
OT 150/UNV/1A0 2DIM P7	150	107	214	1050	
OT 200/UNV/1A0 2DIM P7	200	143	286	1050	
OT 100/ 220-240/1A4 2DIM P7	100	61	144	1400	
OT 150/ 220-240/1A4 2DIM P7	150	91	214	1400	
OT 200/ 220-240/1A4 2DIM P7	200	121	286	1400	
OT 240/ 220-240/1A0 2DIM P7	240	180	343	1050	
EBS-040S105BT2	40	19	57	1050	
EUM-075S	75	18	54	2100	
EBS-080S105BT2	80	38	114	700	
EBS-040S070BT2	40	28	89	700	
EBS-080S070BT2	80	57	178	530	
EUM – 100S	100	17	143	2100	
EUM – 150S	150	18	214	3150	
EUM – 200S	200	18	286	4200	
EUM – 240S	240	18	453	4900	
IT DALI 20/220...240/1A0 E	20	1	60	1050	
IT DALI 40/220...240/1A0 E	40	1	60	1050	
IT DALI 75/220...240/1A0 E	75	1	120	1050	
IT DALI 110/220...240/1A0 E	110	1	200	1050	
IT DALI 150/220...240/1A0 E	150	1	310	1050	
DL-PAK 70	70	18	115	700	
EUCI-040105GLA	40	28	77	1050	
EUCI-075105GLA	75	54	110	1050	
EUCI-130105GLA	130	60	200	1050	
EUCI-170105GLA	170	80	340	1050	
OT 75 /220...240/1A0 1DIM G2 CE	75	1	150	1050	
EUCI-022105GLB	22	8	48	1050	
EUCI-040105GLB	40	20	77	1050	

*** - Detailed data about the compatibility of control gear and led modules - see the Appendix No.1 – Summary LED modules - control gears – on CD**

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ANNEX 1 **TABLE: Critical components information**

Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity[1)]
LED Module	A	LUG	ML21XXXYY.WQQQ.UUV (Luxeon 5050 modules) (choice sheet below)	Tc -40°C to +85°C	EN 62031	ENEC

ML21XXXYY.WQQQ.UUV

1 2 3 4 5 6 7 8

Designations used on the marking of LED boards:

1. ML - PCB designation (ML – LED module).
2. 21 - Year of the project:
3. XXX - Number of the project:
   Luxeon 5050 modules: 660, 661, 662, 663, 670, 671, 672, 673, 680, 681, 682, 683, 690, 691, 692, 693
4. YY - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00…99
5. W - Light color:
   W: White
6. QQQ - CRI and CCT:
   722: CRI 70 and 2200K
   727: CRI 70 and 2700K
   730: CRI 70 and 3000K
   735: CRI 70 and 3500K
   740: CRI 70 and 4000K
   750: CRI 70 and 5000K
   757: CRI 70 and 5700K
   765: CRI 70 and 6500K
   822: CRI 80 and 2200K
   827: CRI 80 and 2700K
   830: CRI 80 and 3000K
   835: CRI 80 and 3500K
   840: CRI 80 and 4000K
   850: CRI 80 and 5000K
   857: CRI 80 and 5700K
   865: CRI 80 and 6500K
7. UU - Assembly variant (selected components not mounted): 01…99
8. V - NTC Thermistor type:
   A - none
   B – 10K
   C – 47K

LED Module	B	LUG	ML21XXXYY.WQQQ.UUV (Cree XPG3 modules) (choice sheet below)	Tc -40°C to +85°C	EN 62031	Tested and accepted by PREDOM Division TR No. B10-3/089/B/22

ML21XXXYY.WQQQ.UUV

1 2 3 4 5 6 7 8

Designations used on the marking of LED boards:

1. ML - PCB designation (ML – LED module).
2. 21 - Year of the project:
3. XXX - Number of the project:
   Cree XPG3 modules: 600, 601, 610, 611
4. YY - Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00…99
5. W - Light color:
   W: White
6. QQQ - CRI and CCT:
   722: CRI 70 and 2200K
   727: CRI 70 and 2700K
   730: CRI 70 and 3000K
   735: CRI 70 and 3500K
   740: CRI 70 and 4000K
   750: CRI 70 and 5000K
   757: CRI 70 and 5700K
   765: CRI 70 and 6500K
   822: CRI 80 and 2200K
   827: CRI 80 and 2700K
   830: CRI 80 and 3000K
   835: CRI 80 and 3500K
   840: CRI 80 and 4000K
   850: CRI 80 and 5000K
   857: CRI 80 and 5700K
   865: CRI 80 and 6500K
7. UU - Assembly variant (selected components not mounted): 01…99
8. V - NTC Thermistor type:
   A - none
   B – 10K
   C – 47K

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ANNEX 1	TABLE: Critical components information					
Object / part No.	**Code**	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity[1)]**
Control gear	A	OSRAM	OT180W/UNV/800C/2DIMLT 2/P6	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT100W/UNV/800C/2DIMLT 2/P6	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 110/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 20/170-240/1A0 1DIM LT2 G1 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 75/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi Dim 250W 0.7A 1-10V 230V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 150W 0.3-1.0A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCA 120W 300-1050mA	220..240V, 50-60Hz, ta= -30...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCA 75W 250–750mA one	220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCA 120W 350–1050mA o	220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCA 160W 350–1050mA o	220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT DX 40/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT DX 75/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT DX 110/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT DX 165/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 20/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 40/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 75/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 110/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 20/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 40/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 40/120...277/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC

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ANNEX 1	TABLE: Critical components information					
Object / part No.	**Code**	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity[1)]**
Control gear	A	OSRAM	OT 60/170...240/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 90/170...240/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...550°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 165/170...240/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 50/120...277/800 2DIMLT2 P	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 50/120...277/1A2 2DIMLT2 P	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 100/120...277/800 2DIMLT2 P	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 110/120...277/1A4 2DIMLT2 P	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 60/220...240/1A4 1DIMA P7	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 100/220...240/1A4 1DIMA P7	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 150/220...240/1A4 1DIMA P7	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 200/220...240/1A4 1DIMA P7	220..240V, 50-60Hz, ta= -40...+55°C, tc max=75°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 40W 0.7A Prog+ GL-J sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 75W 0.35-0.70A GL Prog+ sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 75W 0.1-1.05A Prog GL F sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 100W 0.7A Prog+ GL-Z sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 150W 0.1-1.05A Prog+ GL F sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 150W 0.35-0.70A GL Prog sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 300W 1.5A Prog+ GL-R sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi BP 12W 0.1-0.5A S 230V C100	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi BP 22W 0.2-0.7A S 230V C123	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi BP 40W 0.2-0.7A S 230V C123	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi BP 40W 0.3-1.0A S 230V C123	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 22W 0.2-0.7A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 22W 0.3-1.0A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 40W 0.2-0.7A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 40W 0.3-1.0A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 75W 0.2-0.7A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC

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ANNEX 1	TABLE: Critical components information					
Object / part No.	**Code**	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity[1)]**
Control gear	A	Philips	Xi LP 75W 0.3-1.0A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 75W 0.5-1.5A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 110W 0.2-0.7A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 110W 0.3-1.0A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 165W 0.2-0.7A S1 230V C170 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 165W 0.3-1.0A S1 230V C170 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 165W 0.5-1.5A S1 230V C170 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 22W 0.2-0.7A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 22W 0.3-1.0A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 40W 0.2 -0.7A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 40W 0.2-0.7A SL 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 40W 0.3-1.0A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 40W 0.3-1.0A SL 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 40W 0.2-0.7A SN 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 75W 0.2-0.7A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 75W 0.2-0.7A SL 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 75W 0.3-1.0A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 75W 0.3-1.0A SL 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 75W 0.2-0.7A SN 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 75W 0.5-1.5A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 150W 0.2-0.7A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 150W 0.2-0.7A SL 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 150W 0.3-1.0A SL 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 150W 0.5-1.5A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 150W 0.2-0.7A SN 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 22W 0.2-0.7A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 22W 0.3-1.0A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC

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Object / part No.	**Code**	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity[1)]**
Control gear	A	Philips	Xi FP 40W 0.2-0.7A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 70W 0.3-1.0A NLD C150 230V sXt	220..240V, 50-60Hz, ta= -30...+60°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 75W 0.2-0.7A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 75W 0.5-1.5A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 100W 0.2-0.7A SNLDAE 230V C165 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 110W 0.3-1.0A NLD C150 230V sXt	220..240V, 50-60Hz, ta= -30...+60°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 165W 0.2-0.7A SNLDAE 230V C170 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 330W 0.2-0.75A SNDAE 230V C240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 22W 0.2-0.7A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 22W 0.3-1.0A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 40W 0.2-7.0A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 40W 0.3-1.0A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 150W 0.2-0.7A SNLDAE 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi FP 150W 0.3-1.0A SNLDAE 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi SR 12W 0.2-0.7A SNEMP 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi SR 22W 0.2-0.7A SNEMP 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi SR 75W 0.2-0.7A SNEMP 230V C150 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi SR 75W 0.2-0.7A SNEMP 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi SR 110W 0.2-0.7A SNEMP 230V C150 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC

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Object / part No.	**Code**	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity[1)]**
Control gear	A	Philips	Xi SR 150W 0.2-0.7A SNEMP 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 100W 2.1-4.2A AOC 230V I220	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 150W 2.5-4.9A AOC 230V I220	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 200W 2.8-5.6A AOC 230V I250	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 100W 0.3-1.05A S1 230V I175	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 150W 0.3-1.05A S1 230V I175	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 220W 0.3-1.05A S1 230V I230	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xi LP 220W 0.5-1.5A S1 230V I230	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium Dim 35W 0.7A 1-10V TWE I175	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium Dim 100W 0.7A 1-10V TWE I220	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium Dim 150W 0.7A 1-10V TWE I220	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 75W 0.7A TWE I175	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 150W 0.7A TWE I220	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 75W 1.05A 1-10V 230V C165 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 75W 0.70A 1-10V 230V C165 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 150W 0.70A 1-10V 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium Dim 250W 0 70A 1-10V 230V Q	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium Dim 75W 0.70A 1-10V 230V I220	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium Dim 150W 0.70A 1-10V 230V I220	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium Dim 250W 0.70A 1-10V 230V I220	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 75W 1-10V 230V C165	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 150W 1.05A 1-10V 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 250W 1-10V 230V I220	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Philips	Xitanium 250W 1-10V 230V Q	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 14/100-500/38 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 24/200-1050/39 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 40/200-1050/64 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC

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Control gear	A	Tridonic	LCO 60/200-1050/100 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 90/200-1050/165 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 135/200-1050/220 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 200/200-1050/355 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 14/100-500/38 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 24/200-1050/39 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 40/200-1050/64 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 60/200-1050/100 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=95°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 90/200-1050/165 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 135/200-1050/220 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 200/200-1050/355 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 100/1050/95 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 100/1400/71 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 100/500/200 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 100/700/143 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 150/1050/142 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 150/1400/107 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 150/500/300 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 150/700/214 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 200/1050/190 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 200/1400/142 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 200/500/400 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 200/700/285 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 75/1050/72 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 75/1400/53 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC

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Object / part No.	**Code**	**Manufacturer/ trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity[1)]**
Control gear	A	Tridonic	LCO 75/500/150 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 75/700/108 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 165/220...240/1A0 1DIM G2 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 165/170..240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 200W 200–1050mA 355V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 135W 200–1050mA 220V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=95°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Tridonic	LCO 90W 200–1050mA 165V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 100/UNV/1A0 2DIM P7	120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 150/UNV/1A0 2DIM P7	120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 200/UNV/1A0 2DIM P7	120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 100/ 220-240/1A4 2DIM P7	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 150/ 220-240/1A4 2DIM P7	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 200/ 220-240/1A4 2DIM P7	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 240/ 220-240/1A0 2DIM P7	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-040S105BT2	176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-080S070BT2	176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-080S105BT2	176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-040S070BT2	176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EUM-075S	90..305V, 50-60Hz, ta= -40...+80°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EUM – 100S	100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EUM – 150S	100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EUM – 200S	100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC

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Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity[1)]
Control gear	A	Inventronics	EUM – 240S	100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	IT DALI 20/220...240/1A0 E	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =75 °C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	IT DALI 40/220...240/1A0 E	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =85 °C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	IT DALI 75/220...240/1A0 E	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =100 °C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	IT DALI 110/220...240/1A0 E	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =90 °C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	IT DALI 150/220...240/1A0 E	220...240, 50/60Hz, Ta =-40...+55 °C, Tc max =85 °C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	LACROIX	DL-PAK 70	220...240 50/60Hz, Ta =-25...+60 °C, Tc max =90 °C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	DELTA	EUCI-040105GLA	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =85 °C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	DELTA	EUCI-075105GLA	220...240 V/50/60Hz, Ta =-40...+55 °C, Tc max =85 °C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	DELTA	EUCI-130105GLA	220...240 V/50/60Hz, Ta =-40...+55 °C, Tc max =85 °C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	DELTA	EUCI-170105GLA	220...240 V/50/60Hz, Ta =-40...+55 °C, Tc max =90 °C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 75 /220...240/1A0 1DIM G2 CE	220...240V, 50/60Hz, Ta =-40...+55 °C, Tc max =85 °C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	DELTA	EUCI-022105GLB	220...240V, 50/60Hz, Ta =-40...+55 °C, Tc max =85 °C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	DELTA	EUCI-040105GLB	198...264V, 50/60Hz, Ta =-40...+55 °C, Tc max =90 °C	EN 61347-1 EN 61347-2-13	ENEC
Wires LED	B	Mrowiec	H05V-U	500 V; 0,5 mm²	EN 50525	BBJ
Internal wires	B	Mrowiec	H05V-K	500 V; 0,5 mm²	EN 50525	BBJ
Internal wires	B	E.M.C. Colosio	RD10-B	300/500 V; 0,5 mm²	EN 50525	IMQ
Silicon Fiberglass Insulating Sleeving	B	Isolcavi	GVES 1500	min. 1500 Volt, Temp -60...+250°C	IEC 60684-3-400 IEC 60684-3-402	UL
Terminal block	B	Stucchi	651/652	16A; 400 V	EN-61984	IMQ
Terminal block	B	Stucchi	661/662	6A; 400 V	EN-61984	IMQ
Connector	B	BJB	48.281	16A; 400 V	EN 60998-2-2	VDE
Connector	B	BJB	46.412	16A; 450 V	EN 60998-2-2	VDE
Connector	B	BJB	46.413	16A; 450 V	EN 60998-2-2	VDE
Connector	B	BJB	46.414	16A; 450 V	EN 60998-2-2	VDE
Connector	B	BJB	46.415	16A; 450 V	EN 60998-2-2	VDE
Connector	B	BJB	46.455	16A; 450 V	EN 60998-2-2	VDE
Connector	B	WAGO	224-101	24A; 400 V	EN 60998-2-2	VDE
Connector	B	WAGO	224-112	24A; 400 V	EN 60998-2-2	VDE
Terminal block	B	Wieland	GST18I4S	20A; 400 V	EN 61535	VDE

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APPENDIX TO THE LICENCE/CERTIFICATE No. 0296/ENEC/22

ANNEX 1 **TABLE: Critical components information**

Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity[1)]
Terminal block	B	Wieland	GST 15I2	16A; 250 V	EN 61535	VDE
Connector	B	EMC Colosio	M26B	17A; 300 V	EN 60598-1	IMQ
Knife switch (connector)	B	Longran	M29 M29 mini	16A; 450 V 16A; 250 V	EN 61984 EN 60998-2-1 EN 60998-1	TUV
Connector	B	LONGJOING	JL-700	1.5A, 30V	EN 61984	DEKRA
Connector system	B	Tyco Electronics Corp.	2213795, 2213831, 2213837, 2213858, 2328823, 2329013	30V AC/DC 50/60Hz, 1.5A	EN 61984	UL
Connector system	B	Tyco Electronics Corp.	1-2213871-1, 1-2213871-2, 2213871-1, 2213871-2, X-2213362-X, X-2213627-X	t= -40...+80°C, tc max=80°C 150/240/300VAC, 50/60Hz, 15/7.5/6 A, Signal Contacts: 30VDC, 1.5A	EN 61984	UL
Connector system	B	LUG	iBlock	230V, 50Hz, Ta =-40°C do 70°C	EN61347-2-11	Tested and accepted by PREDOM Division TR No. Z7-2/016/B/20
Connector system	B	LONGJOING Nema	JL-240XA	t= -40...+700C, 480VAC, 50/60Hz, Signal Contacts: 30VDC, 0,25A	EN 61984	DEKRA
Luminaire protection	B	Vossloh schwabe	SP / 230 / 10K	220-240V, 50/60Hz, Ta = -30°C do 80°C	EN 61643-11	VDE
Luminaire protection	B	Vossloh schwabe	SPC 230 / 10K / i	100-277V, 50/60Hz, Ta = -35°C do 80°C	EN 61643-11	DEKRA
Luminaire protection	B	Inventronics	PU-20KX10KTXX	320Vac, 8A, 47-63Hz, Ta = -40°C do 85°C	EN 61643-11 EN 61643-21	VDE
Luminaire protection	B	Inventronics	PU-20Kx10KBx	320Vac, 15A, 47-63Hz, Ta = -40°C do 85°C	EN 61643-11 EN 61643-21	VDE
Luminaire protection	B	Inventronics	PU-10Kx05KBx	320Vac, 8A, 47-63Hz, Ta = -40°C do 85°C	EN 61643-11 EN 61643-21	VDE
Luminaire protection	B	Linoya Electronic Technology	LYSPD10D	300Vac, 50Hz, IP67	EN 61643-11	TUV

Supplementary information:

A - The component is replaceable with another one, also certified, with equivalent characteristics

B - The component is replaceable if authorised by the test house

Date:*Data:* 30-09-2022

Signature:

Name: Józef Foks

Position: Certification Office Łukasiewicz- IMiF PREDOM Division

Filip Walczak

Leader of the Łukasiewicz- IMiF PREDOM Division