

**TEST REPORT****COMMISSION REGULATION (EU) 2019/2020 of 1 October 2019****laying down ecodesign requirements for light sources and separate control gears pursuant to****Directive 2009/125/EC of the European Parliament and of the Council****Report reference No.**..... LCSB050523079S**Prepare by**..... Seth Cai (Project Engineer)*Seth Cai***Check by**..... Ian Luo (Director)*Ian Luo***Approved by**..... Jesse Liu (Manager)*Jesse Liu***Date of issue** November 23, 2023**Contents**..... 14 pages**Testing laboratory****Name** Shenzhen Southern LCS Compliance Testing Laboratory Ltd.**Address** 101-201, No.39 Buliding, Xialang Industrial Zone, Heshuikou
Community, Matian Street, Guangming District, Shenzhen, China**Testing location** As above**Client****Name** Shenzhen Penel Optoelectronics Technology Co., Ltd**Address**..... The 4th Floor ,Xihe Industrial Park, Tangtou Avenue, Shiyan Street,
Bao'an District, Shenzhen, China**Manufacturer****Name** Shenzhen Penel Optoelectronics Technology Co., Ltd**Address**..... The 4th Floor ,Xihe Industrial Park, Tangtou Avenue, Shiyan Street,
Bao'an District, Shenzhen, China**Test specification****Standard**..... COMMISSION REGULATION (EU) 2019/2020
COMMISSION DELEGATED REGULATION (EU) 2019/2015
COMMISSION DELEGATED REGULATION (EU) 2021/340
COMMISSION DELEGATED REGULATION (EU) 2021/341
Test procedure COMMISSION REGULATION (EU) 2019/2020
COMMISSION DELEGATED REGULATION (EU) 2019/2015
COMMISSION DELEGATED REGULATION (EU) 2021/340
COMMISSION DELEGATED REGULATION (EU) 2021/341**Non-standard test metho**..... N/A**TRF No. (EU) 2019/2020**

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Test item Description: LED STREET LIGHT

Trademark: PENEL

Model and/or type reference.....: STL-30W-NS10

Rating(s)(V/Hz).....: AC100-277V, 50/60Hz, 30W

Test case verdicts

Test case does not apply to the test object.....: N(N/A)

Test item does meet the requirement: P(Pass)

Test item does not meet the requirement: F(Fail)

Testing

Date of receipt of test item: June 12, 2023

Date(s) of performance of test.....: June 13, 2023 – November 17, 2023

Test item particulars:

Type of light source:

- Lighting technology used ☐ HL ☐ LFLT5HE ☐ LFL T5HO ☐ CFLni ☐ other FL
☐ HPS ☐ MH ☐ other HID ☒ LED ☐ OLED
☐ mixed ☐ other
- Non-directional or directional ☐ NDLS ☒ DLS
- Mains or non-mains ☒ MLS ☐ NMLS
- Connected light source (CLS) ☐ Yes ☒ No
- Colour-tuneable light source ☐ Yes ☒ No
- Envelope ☒ no ☐ second ☐ non-clear
- High luminance light source ☐ Yes ☒ No
- Anti-glare shield ☐ Yes ☒ No
- Dimmable ☐ Yes ☐ only with specific dimmers ☒ No
- Use of light source: ☐ Indoor ☒ Outdoor ☐ Industry

Lamp cap installed: N/A

General product parameters :

Energy consumption in on-mode (kWh/1 000 h) 30

Energy efficiency class ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F ☐ G

Rated useful luminous flux.....(lm): 3900

Rated CCT(K): 3000K

On-mode power (Pon), expressed in W.....: 30

Standby power (Psb).....(W): N/A

Networked standbypower(Pnet)for CLS.....(W): N/A

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Rated Ra.....: 70(use in out-door)
Outer dimensions.....(mm): 496.4x191.1x78.9
Spectral power distribution.....: See attachment 2
Claim of equivalent power: ☐ Yes: ☒ N/A
Chromaticity coordinates (x and y).....: x:0.4400, y:0.4030
Peak luminous intensity(cd) : 1700
Beam angle in degrees.....(°) : 150x80
R9 colour rendering index value R9.....: -35
Survival factor: 100%
The lumen maintenance factor.....: 96%
Displacement factor (cos ϕ 1).....: 0.9
Colour consistency in McAdam ellipses.....: 6
Claims that an LED light source replaces a
fluorescent light source without integrated
ballast of a particular wattage.....: ☐ Yes: ☒ N/A
Flicker metric (Pst LM): 0.10
Stroboscopic effect metric (SVM).....: 0.05
Rated life time(h): 50000h

Attachments:

The test report includes: ATTACHMENT 1(S) of Energy efficiency classes
The test report includes: ATTACHMENT 2(S) of Spectral power distribution
The test report includes: ATTACHMENT 3(S) of Photos

Summary of testing:

- 1、 These results are in compliance with the ecodesign requirements of the Commission Regulation (EU) 2019/2020.
- 2、 Measurement was conducted at voltage AC230V and a stable ambient temperature $25 \pm 10^{\circ}\text{C}$.
- 3、 The total harmonic content of the supply voltage shall not exceed 3 %.

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**Equipment List:**

Instrument	Equipment ID	Model	Calibration Date	Calibration Due Date
Full-field Speed Goniophotometer	SLCS-S-112	GO-R5000	2023/06/15	2024/06/14
Digital Power Meter	SLCS-S-103	PF2010	2023/06/15	2024/06/14
AC Testing Power Source	SLCS-S-115	DPS1060	2023/06/15	2024/06/14
Total Spectral Radiant Flux Standard Lamp	SLCS-S-143	D908S	2023/07/05	2024/07/04
2m Integrating Sphere System	SLCS-S-312	HAAS2000	2023/06/15	2024/06/14
Digital Power Meter	SLCS-S-309	PF9810	2023/06/15	2024/06/14
AC Testing Power Source	SLCS-S-310	DPS1005	2023/06/15	2024/06/14
Standard Lamp	SLCS-S-313	DC24/50W	2023/07/05	2024/07/04
Power Meter	SLCS-S-060	PF9800	2023/06/15	2024/06/14
Flicker Photometer	SLCS-S-119	FP-210	2023/06/15	2024/06/14

General remarks

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

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"(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 point is used as the decimal separator.

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Clause	Requirement - Test	Result - Remark	Verdict
Annex I (Clause)	Definitions in Regulation (EU) 2019/2020		P
	Number of sample used for test	10 pcs	P
(3)	Directional Light Source		P
	at least 80 % of total luminous flux within a solid angle of π sr (corresponding to a cone with angle of 120°)		P
(15)	Useful luminous flux Φ_{use}		P
	for non-directional light sources it is the total flux emitted in a solid angle of 4π sr (corresponding to a 360° sphere)		N
	for directional light sources with beam angle $\geq 90^\circ$ it is the flux emitted in a solid angle of π sr (corresponding to a cone with angle of 120°)		P
	for directional light sources with beam angle $< 90^\circ$ it is the flux emitted in a solid angle of $0,586\pi$ sr (corresponding to a cone with angle of 90°)		N
Annex II (Clause)	Energy Efficiency Requirements in Regulation (EU) 2019/2020		P
1.(a)	Energy Efficiency Requirements – Light Source		P
	On-mode Power P_{on} (W):	$P_{on}=30.36$ W	P
	Maximum Allowed Power P_{onmax} (W): $P_{onmax} = C \times (L + \Phi_{use}/(F \times \eta)) \times R$	$P_{onmax}=45.82$ W	P
	Φ_{use} :	3900 lm	
	Threshold efficacy η (lm/W): η for LED:	120.0	P
	End loss factor L (W) depending on light source: L for LED: 1.5	1.5	P
	End loss factor L (W) for connected light sources: 2.0		N
	Efficacy Factor F: 1.00 for non-directional light sources (NDLS, using total flux)		N
	Efficacy Factor F: 0.85 for directional light sources (DLS, using flux in a cone)	0.85	P
	CRI Factor R: 0.65 for $CRI \leq 25$		N
	CRI Factor R: ($CRI+80$)/160 for $CRI > 25$, rounded to two decimals	$R=(70+80)/160=0.94$	P

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Clause	Requirement - Test	Result - Remark	Verdict
	Correction Factor C Depending on Light Source Characteristics in Table 2		N
	Non-directional (NDLS) not operating on mains (NMLS), Basic Value: 1.00		N
	Non-directional (NDLS) operating on mains (MLS), Basic Value: 1.08		N
	Directional (DLS) not operating on mains (NMLS), Basic Value: 1.15		N
	Directional (DLS) operating on mains (MLS), Basic Value: 1.23	1.23	P
	Special Light Source Bonus on C		N
1.(a)	Standby power – Light Source		N
	The standby power P_{sb} of a light source shall not exceed 0.5 W		N
	The networked standby power P_{net} of a connected light source shall not exceed 0.5 W		N
	The allowable values for P_{sb} and P_{net} shall not be added together		N
1.(b)	Energy Efficiency Requirements – Separate Control Gear (at full-load)		N
	Control gear for LED or OLED light sources: $P_{eg}^{0.81} / (1.09 \times P_{eg}^{0.81} + 2.10)$		N
	The no-load power P_{no} of a separate control gear shall not exceed 0.5 W		N
	The standby power P_{sb} of a separate control gear shall not exceed 0.5 W		N
	The networked standby power P_{net} of a connected separate control gear shall not exceed 0.5 W		N
	The allowable values for P_{sb} and P_{net} shall not be added together		N
2.	Functional Requirements – Light Source (Table 4)		P
	Colour Rendering Index CRI: ≥ 80	72.1(use in out-door)	P
	Displacement Factor DF at Power Input P_{on} for LED and OLED MLS:		P
	No limit at $P_{on} \leq 5$ W DF ≥ 0.5 at 5 W $< P_{on} \leq 10$ W, DF ≥ 0.7 at 10 W $< P_{on} \leq 25$ W DF ≥ 0.9 at 25 W $< P_{on}$	0.973	P
	Lumen Maintenance Factor (for LED and OLED): $X_{LMF,MIN}\% = 100 \times e^{\frac{(3000 \times \ln(0.7))}{L_{70}}}$	98.60%	P
	Survival Factor (for LED and OLED):	100%	P

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Clause	Requirement - Test	Result - Remark	Verdict
	At least 9 light sources of the test sample must be operational after completing the test in Annex V of this Regulation.		
	Colour consistency for LED and OLED light sources: Variation of chromaticity coordinates within a six-step MacAdam ellipse or less.	4.5	P
	Flicker for LED and OLED MLS: $P_{st} LM \leq 1.0$ at full-load	0.068	P
	Stroboscopic effect for LED and OLED MLS: $SVM \leq 0.4$ at full-load	0.020	P
3.(a)	Information to be displayed on the light source itself		P
	Useful luminous flux (lm)	3900lm	P
	Correlated colour temperature (K)	3000K	P
	Beam angle (°) For directional light sources	150x80	P
3.(b)	Information to be visibly displayed on the packaging		P
3.(b)(1)	Light source placed on the market, not in a containing product		P
	(a) Useful luminous flux (lm): - In a font at least twice as large as the display of the on-mode power (Pon) - Clearly indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)		P
	(b) Correlated Colour Temperature, rounded to the nearest 100 K		P
	(c) Beam angle in degrees For directional light sources		P
	(d) electrical interface details, e.g. cap- or connector-type, type of power supply (e.g. 230 V AC 50 Hz, 12 V DC)		P
	(e) L70B50 lifetime for LED and OLED light sources, expressed in hours		P
	(f) on-mode power (Pon), expressed in W		P
	(g) standby power (Psb), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging		N
	(h) networked standby power (Pnet) for CLS, expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging		N
	(i) Colour Rendering Index, rounded to the nearest integer		P
	(j) Clear indication to this effect, if CRI < 80, and the light source is intended for use in outdoor		N

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Clause	Requirement - Test	Result - Remark	Verdict
	applications, industrial applications or other applications where lighting standards allow a CRI < 80.		
	(k) Information on non-standard conditions (such as ambient temperature $T_a \neq 25^\circ \text{C}$ or specific thermal management is necessary)		P
	(l) a warning if the light source cannot be dimmed or can be dimmed only with specific dimmers or with specific wired or wireless dimming methods. In the latter cases a list of compatible dimmers and/or methods shall be provided on the manufacturer's website		N
	(m) if the light source contains mercury: a warning of this, including the mercury content in mg rounded to the first decimal place		N
	(n) if the light source is within the scope of Directive 2012/19/EU, without prejudice to marking obligations pursuant to Article 14(4) of Directive 2012/19/EU, or contains mercury: a warning that it shall not be disposed of as unsorted municipal waste		N
3.(b)(2)	Separate control gears For separate control gear placed on the market as a stand-alone product, not as a part of a containing product		N
	(a) the maximum output power of the control gear (for HL, LED and OLED) or the power of the light source for which the control gear is intended (for FL and HID)		N
	(b) the type of light source(s) for which it is intended		N
	(c) the efficiency in full-load, expressed in percentage		N
	(d) the no-load power (P_{no}), expressed in W and rounded to the second decimal, or the indication that the gear is not intended to operate in no-load mode. If the value is zero, it may be omitted from the packaging but shall nonetheless be declared in the technical documentation and on websites		N
	(e) the standby power (P_{sb}), expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging but shall nonetheless be declared in		N
	(f) the networked standby power (P_{net}),		N

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Clause	Requirement - Test	Result - Remark	Verdict
	expressed in W and rounded to the second decimal. If the value is zero, it may be omitted from the packaging but shall nonetheless be declared in the technical documentation and on websites		
	(g) a warning if the control gear is not suitable for dimming of light sources or can be used only with specific types of dimmable light sources or using specific wired or wireless dimming methods. In the latter cases, detailed information on the conditions in which the control gear can be used for dimming shall be provided on the manufacturer's or importer's website		N
	(h) a QR-code redirecting to a free-access website of the manufacturer, importer or authorised representative, or the internet address for such a website, where full information on the control gear can be found		N
3.(c)	Information to be visibly displayed on a free-access website of the manufacturer, importer or authorised representative		N
3.(c)(1)	Separate control gears For any separate control gear that is placed on the EU market, the following information shall be displayed on at least one free-access website:		N
	(a) the information specified in point 3(b)(2), except 3(b)(2)(h)		N
	(b) the outer dimensions in mm		N
	(c) the mass in grams of the control gear, without packaging, and without lighting control parts and non-lighting parts, if any and if they can be physically separated from the control gear		N
	(d) instructions on how to remove lighting control parts and non-lighting parts, if any, or how to switch them off or minimise their power consumption during control-gear testing for market surveillance purposes		N
	(e) if the control gear can be used with dimmable light sources, a list of minimum characteristics that the light sources should have to be fully compatible with the control gear during dimming, and possibly a list of compatible dimmable light sources		N
	(f) recommendations on how to dispose of it at		N

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Appendix-Test Data Sheet

1、Initial Lumen Measurement :

Sample No.	Power Pon (W)	Disp. Factor	Luminous Flux Φ_{total} (lm)	Luminous Flux Φ_{use} (lm)	Efficacy (lm/W)	Beam angle (°)
1	30.59	0.973	4749.11	3912.12	155.25	120.8
2	30.15	0.971	4606.32	3951.00	152.78	119.8
3	30.24	0.976	4710.79	3915.28	155.78	120.0
4	30.33	0.974	4733.00	3908.96	156.05	119.6
5	30.07	0.970	4654.23	3945.75	154.78	119.7
6	30.45	0.975	4714.27	3939.64	154.82	120.8
7	30.71	0.973	4728.11	3957.82	153.96	120.2
8	30.15	0.971	4698.88	3910.85	155.85	119.4
9	30.34	0.976	4787.96	3911.75	157.81	119.7
10	30.52	0.972	4666.51	3902.89	152.90	119.6
Avg.	30.36	0.973	4704.92	3925.61	155.00	120.0

2、Color Performance:

Color Temp (CCT)	Color rendering (Ra)	R9	SDCM	x	y
3067	72.1	-34	4.7	0.4334	0.4048
3059	72.5	-32	4.5	0.4340	0.4051
3019	71.9	-35	4.3	0.4338	0.4042
3039	71.8	-35	4.3	0.4346	0.4056
3077	72.5	-33	4.5	0.4341	0.4052
3029	72.0	-34	4.4	0.4339	0.4047
3054	71.7	-36	4.2	0.4340	0.4043
3013	72.3	-33	4.3	0.4345	0.4055
3055	72.2	-34	4.9	0.4334	0.4051
3081	71.6	-36	4.5	0.4337	0.4047
3049	72.1	-34	4.5	0.4339	0.4049

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**3、Different Mode Power 、Flicker、Stroboscopic Effect and Lumen Maintenance Test:**

Sample No.	No-Load Power Pno	Standby Power Psb	Network Sb. Power Pnet	Flicker Pst LM	Stroboscopic Effect SVM	Total Luminous flux (lm) After 3600h	Lumen Maintenance at 3600h (%)	Survival factor at 3600h
1	N/A	N/A	N/A	0.067	0.023	4679.77	98.54%	P
2	N/A	N/A	N/A	0.072	0.025	4529.39	98.33%	P
3	N/A	N/A	N/A	0.060	0.019	4613.74	97.94%	P
4	N/A	N/A	N/A	0.059	0.023	4641.18	98.06%	P
5	N/A	N/A	N/A	0.070	0.020	4590.01	98.62%	P
6	N/A	N/A	N/A	0.075	0.015	4661.47	98.88%	P
7	N/A	N/A	N/A	0.077	0.017	4667.59	98.72%	P
8	N/A	N/A	N/A	0.069	0.016	4647.19	98.90%	P
9	N/A	N/A	N/A	0.066	0.024	4739.60	98.99%	P
10	N/A	N/A	N/A	0.071	0.019	4622.64	99.06%	P
Avg.	N/A	N/A	N/A	0.068	0.020	4639.26	98.60%	P

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ATTACHMENT 1(S)

Energy efficiency classes			
Standard	Clause	Model No.	Verdict
(EU) 2019/2015	Energy class	STL-30W-NS10	P
Conditions	-Test conditions: -ambition: 25°C/65%R.H. -Test voltage:AC230V		
Φ_{use}	3900 lm (Declared)		
P_{on}	$P_{on} = 30W$ (Declared)		
F_{TM}	1.176		
η_{TM}	152.88 lm/w (Declared)		
Technical requirements		Test result	
$\eta_{TM} = (\Phi_{use}/P_{on}) \times F_{TM} \text{ (lm/W)}$	Energy efficiency class	Total mains efficacy η_{TM} (lm/W)	--
	A	$210 \leq \eta_{TM}$	N
	B	$185 \leq \eta_{TM} < 210$	N
	C	$160 \leq \eta_{TM} < 185$	N
	D	$135 \leq \eta_{TM} < 160$	P
	E	$110 \leq \eta_{TM} < 135$	N
	F	$85 \leq \eta_{TM} < 110$	N
	G	$\eta_{TM} < 85$	N
Factors FTM by light source type			
Light source type		Factor F_{TM}	--
Non-directional (NDLS) operating on mains (MLS)		1.000	N
Non-directional (NDLS) not operating on mains (NMLS)		0.926	N
Directional (DLS) operating on mains (MLS)		1.176	P
Directional (DLS) not operating on mains (NMLS)		1.089	N

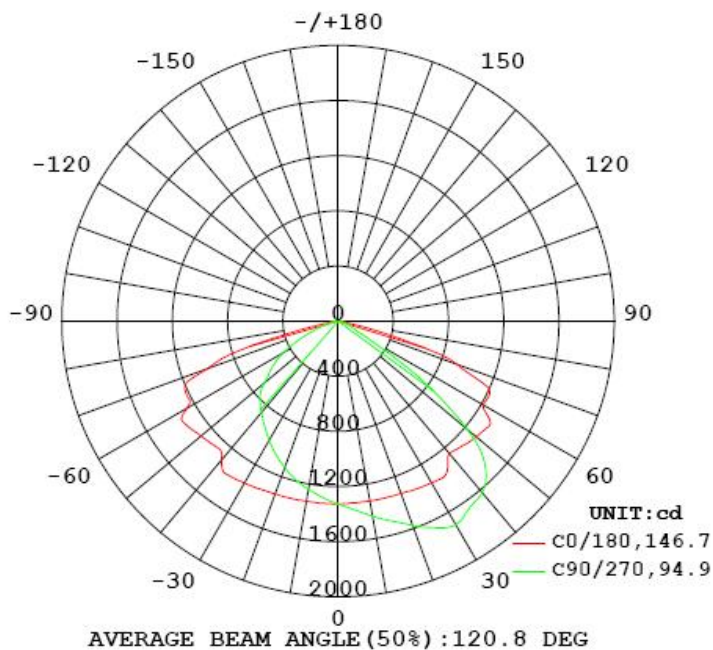
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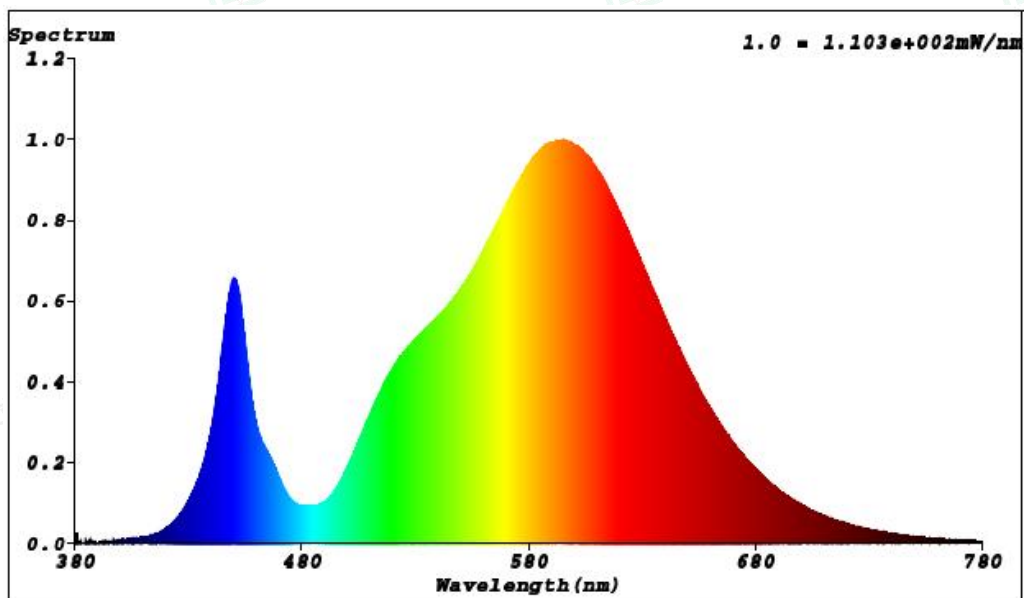
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ATTACHMENT 2(S)

Luminous Intensity Distribution Diagram



Spectral power distribution



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Scan code to check authenticity

ATTACHMENT 3(S)

Photos of STL-30W-NS10



----- End of test report-----

TRF No. (EU) 2019/2020



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