PRODUCT ENVIRONMENTAL PROFILE – VALINEO G5

Reference product: ValineoG5 M84 PW19 38-50/4ML-840 ETDD

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Independent verification of the declaration and data, in compliance with ISO 14025: 2006.			
Internal		**External**	x
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain).			
PEPs are compliant with XP C08-100-1:2016 or EN 50693:2019.			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025:2006„Environmental labels and declarations.Type Ill environmental declarations".			

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1. GENERAL INFORMATION

1.1 Product information

LED recessed luminaire with microprismatic PMMA cover, model M84 (625 mm x 625 mm), suitable for screen-based workplaces such as offices, corridors, foyers, conference rooms, retail areas, and waiting zones, including HACCP, IFS, and BRC Global Standard Food certified companies. Designed for installation in ceilings with visible support rails; with accessories, also suitable for surface or cut-out ceiling mounting (material thickness 18–40 mm). The symmetrical, wide beam optical system ensures low glare (UGR < 19, EN 12464-1) and uniform light, with luminance limited to L ≤ 3000 cd/m² at angles above 65°. The LED system offers four adjustable luminous flux levels (3800–5000 lm), rated power 21–29 W, high efficiency (up to 183 lm/W), neutral white light (4000 K), high color rendering (Ra > 80), color consistency ≤ 3 SDCM, median lifetime L80 (100,000 h at tq 25°C), flicker-free lighting (Pst LM ≤ 1.0, SVM ≤ 0.4). The luminaire body consists of an aluminum frame and steel rear housing, white coated (approx. RAL 9016), measuring 620 x 620 x 34.5 mm, with IP44 room-side protection, IP20 overall, impact resistance IK03, glow-wire tested at 650°C, suitable for ambient temperatures up to 30°C, and weighing 2.3 kg. The product features a digitally dimmable electronic ballast (DALI), replaceable per Ecodesign requirements (EU 2019/2020), output ripple ≤ 4%, CE marked, and ENEC certified.

1. GENERAL INFORMATION

Table 1: Key technological data

Information	Unit	Description
Light source	-	Integrated LED module
Control gear	-	External
Color temperature	K	4000
Protection index for water and dust (IP)	-	IP20
Impact resistance index (IK)	-	IK03
Nominal operating voltage	V	220-240
Declared lifetime of the luminaire	Hours	50000
Declaration lifetime of the light source	Hours	50000
Outgoing luminous flux/Useful output flux	Lumen	3800-5000
Electrical input power	W	21-29
Luminous efficiency	Lumen/W	Up to 180
Dimension	mm	620 x 620 x 34.5

1.2 Goal and Scope

Following information has been used to generate the PEP:

Table 2: Goal and Scope

Information	
Functional unit	Provide lighting that delivers an outgoing artificial luminous flux of 1,000 lumens during a reference lifetime of 35,000 hours
Reference flow/declared unit*	One pieces of product
Life cycle stages covered	Cradle-to-grave and Module D
Product category according to PSR	Luminaires
Product family name	VALINEO G5
Product name	ValineoG5 M84 PW19 38-50/4ML-840 ETDD

*The reference flow is calculated as: [1,000/outgoing luminous flux of the analyzed product in lumens] × [35,000/declared product lifetime of the analyzed product in hours]. Consequently, the reference flow of the following product correspond to: [1,000/5,000] × [35,00/100,000] = 0.140

2. CONSTITUENT MATERIALS

2.1 Overview

The product composition is shown in the following

Table 3: Product composition

	Weight [in kg]	Share [in %]
Total Weight	3.386	100
Product	2.428	71.71
Packaging	0.958	28.29

2.2 Product

The material composition of the product is shown in the following table.

Table 4: Material composition-product

	Weight [in kg]	Share [in %]
Total weight	2.428	100
Aluminium	0.355	14.62
Steel	1.058	43.57
Polystyrene (PS)	0.256	10.54
Polycarbonate(PC)	0.043	1.77
Polycarbonate/Poly Vinyl Chloride/Copper (PC/PVC/Cu) blend	0.052	2.14
Polymethyl Methacrylate(PMMA)	0.476	19.60
Rubber	0.008	0.33
Other	0.035	1.44
Electronics	0.145	5.97

2.3 Packaging

The product composition is shown in the following table.

Table 5: Material composition-packaging

	Weight [in kg]	Share [in %]
Total weight	0.958	100
Paper/Cardboard	0.796	83.09
Other	0.001	0.10
Wood	0.161	16.81

3. INFORMATION ON LIFE CYCLE STAGES

3.1 Manufacturing stage (A1-A3)

The manufacturer sources all parts from suppliers. Within the manufacturing site in China, the product was assembled and tested using energy and auxiliaries. Afterwards the product is packed in packaging materials and distributed to the client.

3.2 Distribution stage (A4)

The main market of the product is Europe and there is no specific data are available. For this reason, an Intercontinental transport from China to the arrival of the product at the place of use following PEP-PCR-ed4- EN-2021 09 06 is considered in the model:

Ship: 19,000 km

Lorry: 1000 km

3.3 Installation stage (A5)

During installation, product testing takes 0.1 hours and consumes 0.003 kWh electricity.

There is no material input is required to installation. The End-of-life scenario of packaging materials was used according to PSR-0014-ed2.0-EN2023 07 13. The transport of packaging materials following PSR-0014-ed2.0-EN2023 07 13:

Lorry: 100 km

3.4 Use stage (B1-B7)

The product has no direct emissions and no maintenance is required. Due to the assigned life time of integrated LED module is 50000 Hours, which is the same as VALINEO G5 luminaire, there is no light sources need to be replaced. Furthermore, no standard repairs or refurbishments are foreseen. The use of the product does consume electricity, but no water.
ValineoG5 M84 PW19 38-50/4ML-840 ETDD can be connected via DALI which has light management function according to PSR-0014-ed2.0-EN2-023 07 13. The energy saving coefficients according to table 5 in PSR-0014-ed2.0-EN-2023 07 13 be applied.

The market of the product is Europe, and the distribution ratio of country/region is the following:

Country/Region	Share (%)	Energy model
Germany	75	Electricity, low voltage {DE}| market for electricity, low voltage | Cut-off, S
France	5	Electricity, low voltage {FR}| market for electricity, low voltage | Cut-off, S
Netherlands	4	Electricity, low voltage {NL}| market for electricity, low voltage | Cut-off, S

Great Britain	3	Electricity, low voltage {GB}| market for electricity, low voltage | Cut-off, S
Iceland	2	Electricity, low voltage {IS}| market for electricity, low voltage | Cut-off, S
Other countries in EU	11	Electricity, low voltage {RER}| market group for | Cut-off, S

3.5 End-of-life stage (C1-C4)

There is no specific data are available to calculate the shipment of product from the installation site to the approved treatment centers. The default distance is 1000 km by lorry was used according to PEP-PCR-ed4- EN-2021 09 06.
The product and its PCB falls under the Waste from Electrical and Electronic Equipment (WEEE) directive 2012/19/EU. The valuable fractions (Aluminium, Steel and Plastics, etc) are recycling within the default recycling recovering rate established in EN 50693. The remaining parts, based on mass balance, are sent to sanitary landfill.

3.6 Benefits and loads beyond the system boundaries stage (D)

The reuse/recycling of the product (incl. packaging) and incineration with energy recovery generates environmental benefits by avoiding the production of primary materials or energy. The scope of the Module D is With Net Benefits and the net benefits and loads beyond the system boundaries are calculated using the formulas described in PEP-PCR–ed4- EN-2021 09 06. The amount and type of material flows used for the calculation of benefits are listed in Table 6.

Table 6: Material flows for reuse, recycling and/or recovery per unit of produc (declared unit, 5000 lumens during 50000 hours)

Information	Unit	Value
Total weight of product going into reuse	kg	0.000
Total weight of product going into recycling	kg	1.124
Share of metals	%	94.53
Share of plastics	%	4.55
Share of others	%	0.92
Total weight of product going into incineration with energy recovery	kg	0.153
Share of metals	%	0.00
Share of plastics	%	100.00
Share of others	%	0.00
Total weight of packaging going into reuse	kg	0.160
Total weight of packaging going into recycling	kg	0.627
Share of Paper/board	%	100.00
Share of Plastics	%	0.00
Total weight of packaging going into incineration with energy recovery	kg	0.069
Share of Paper/board	%	100.00
Share of Plastics	%	0.00

4. ENVIRONMENTAL INFORMATION

The VALINEO G5 luminaire evaluated in this PEP are in lined with EN 60598-1.

The primary data collected were representative of a current scenario in terms of geographical coverage and technological, which coverage averaged one year. The environmental information included in this study cover all the stages of the life cycle ("cradle to grave"). The life cycle be divided into manufacturing stage (A1-A3), distribution stage (A4), installation stage (A5), use stage (B1-B7, the value of B1-B7 except B6 are 0 and not reflected in the table 9 and table 11), End-of-life stage (C1-C4) and benefits and loads beyond the system boundaries stage (D). The results refer to the core environmental impact indicators and mandatory indicators describing resource use, waste categories, and output flows according to PEP-PCR–ed4- EN-2021 09 06.

The environmental impacts assessment of the reference product has been performed using Simapro 10.1 software. Background datasets have been retrieved from Ecoinvent 3.11. The results refer to the core environmental impact indicators and mandatory indicators describing resource use, waste categories, and output flows according to PEP-PCR–ed4- EN-2021 09 06.

4.1 Results per functional unit

The following results of the environmental declaration have been developed by considering an outgoing artificial luminous flux of 1000 lumens over a reference lifetime of 35000 hours.

Table 7: Results core environmental impact indicators per functional unit

Impact category	Unit	Total	Manufacturing			Distribution	Installation
			A1	A2	A3	A4	A5
GWP-total	kg CO2 eq	4.68E+01	3.32E+00	5.20E-02	3.71E-02	1.44E-01	3.22E-02
GWP-biogenic	kg CO2 eq	3.12E+00	-1.07E-01	1.71E-05	-4.15E-05	4.04E-06	2.06E-02
GWP-fossil	kg CO2 eq	4.36E+01	3.42E+00	5.20E-02	3.71E-02	1.44E-01	1.15E-02
GWP-lulut	kg CO2 eq	1.37E-01	5.71E-03	2.36E-05	1.68E-05	7.34E-05	1.44E-05
ODP	kg CFC11 eq	2.25E-06	1.65E-06	7.07E-10	1.20E-10	2.05E-09	1.48E-10
AP	mol H+ eq	1.54E-01	1.98E-02	2.20E-04	2.18E-04	2.93E-03	6.34E-05
EP-marine	kg N eq	3.65E-02	3.64E-03	7.85E-05	4.52E-05	7.53E-04	3.07E-05
EP-freshwater	kg P eq	5.52E-02	1.92E-03	5.67E-06	7.75E-06	8.90E-06	1.65E-06
EP-terrestrial	mol N eq	2.91E-01	3.64E-02	8.55E-04	4.79E-04	8.34E-03	2.42E-04
POCP	kg NMVOC eq	8.88E-02	1.37E-02	2.98E-04	1.32E-04	2.34E-03	8.93E-05
ADPE	kg Sb eq	7.57E-04	2.67E-04	1.72E-07	1.75E-07	2.37E-07	4.44E-08
ADPF	MJ	7.29E+02	4.34E+01	7.24E-01	3.91E-01	1.88E+00	1.47E-01
WDP	m3 depriv.	4.85E+00	8.71E-01	3.35E-03	4.73E-03	6.47E-03	-7.91E-04
Impact category	**Unit**	**Use**	**End of life**				**Benefits and loads beyond the system boundaries stage**
		B6	**C1**	**C2**	**C3**	**C4**	**D**
GWP-total	kg CO2 eq	4.30E+01	1.07E-01	3.56E-02	1.57E-02	1.18E-01	-5.93E-01
GWP-biogenic	kg CO2 eq	3.08E+00	2.12E-05	2.19E-05	6.42E-03	1.11E-01	1.06E-02
GWP-fossil	kg CO2 eq	3.98E+01	1.07E-01	3.56E-02	9.30E-03	7.34E-03	-6.02E-01
GWP-lulut	kg CO2 eq	1.31E-01	3.81E-05	1.29E-05	2.19E-05	1.76E-06	-1.25E-03

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ODP	kg CFC11 eq	6.05E-07	1.60E-10	7.84E-10	1.08E-10	4.60E-11	-4.82E-09
AP	mol H+ eq	1.30E-01	1.20E-04	1.45E-04	6.18E-05	2.18E-05	-3.52E-03
EP-marine	kg N eq	3.17E-02	3.48E-05	5.44E-05	2.42E-05	1.46E-04	-6.57E-04
EP-freshwater	kg P eq	5.33E-02	9.13E-06	2.53E-06	2.20E-06	1.16E-05	-3.00E-04
EP-terrestrial	mol N eq	2.44E-01	3.31E-04	5.93E-04	2.17E-04	6.53E-05	-6.41E-03
POCP	kg NMVOC eq	7.17E-02	9.09E-05	2.24E-04	6.94E-05	5.13E-05	-1.99E-03
ADPE	kg Sb eq	4.89E-04	1.59E-07	1.01E-07	7.88E-08	3.93E-09	-1.21E-05
ADPF	MJ	6.81E+02	2.48E-01	5.24E-01	1.11E-01	4.40E-02	-6.87E+00
WDP	m3 depriv.	3.99E+00	3.93E-03	2.38E-03	8.56E-04	-2.61E-02	-1.52E-01

Acronyms: GWP-total=Global Warming Potential total; GWP-biogenic=Global Warming Potential biogenic; GWP-fossil=Global Warming Potential fossil; GWP-lulut=Global Warming Potential land use and land use transformation; ODP=Ozone Depletion; AP=Acidification; E=Eutrophication; POCP=Photochemical ozone formation; ADPE=Depletion of abiotic resources-minerals and metals; ADPF=Depletion of abiotic resources-fossil fuels; WDP=Water resource deprivation.

Table 8: Results of mandatory indicators per functional unit

Indicators	Unit	Value
Renewable primary energy (without raw material)	MJ	1.622E+01
Renewable primary energy (raw material)	MJ	1.949E+00
Total use of renewable primary energy	MJ	1.817E+01
Non-renewable primary energy (without raw material)	MJ	7.251E+02
Non-renewable primary energy (raw material)	MJ	2.860E+00
Total use of non-renewable primary energy	MJ	7.280E+02
Use of secondary materials	kg	0.000E+00
Use of renewable secondary fuels	MJ	0.000E+00
Use of non-renewable secondary fuels	MJ	0.000E+00
Net use of fresh water	M3	3.614E-01
Hazardous waste disposed	kg	5.087E-02
Non-hazardous waste disposed	kg	3.804E+00
Radioactive waste disposed	kg	3.677E-03
Components for reuse	kg	2.245E-02
Materials for recycling	kg	3.418E-01
Materials for energy recovery	kg	3.105E-02
Exported energy	MJ	0.000E+00
Biogenic carbon content of the product	kg	0.000E+00
Biogenic carbon content of the associated packaging	kg	6.693E-02

4. ENVIRONMENTAL INFORMATION

4.2 Results per unit of product

Table 9:Results core environmental impact indicators per unit of product (declared unit, 5000 lumens during 50000 hours)

Impact category	Unit	Total	Manufacturing			Distribution	Installation
			A1	A2	A3	A4	A5
GWP-total	kg CO2 eq	3.35E+02	2.37E+01	3.71E-01	2.65E-01	1.03E+00	2.30E-01
GWP-biogenic	kg CO2 eq	2.23E+01	-7.63E-01	1.22E-04	-2.97E-04	2.88E-05	1.47E-01
GWP-fossil	kg CO2 eq	3.11E+02	2.45E+01	3.71E-01	2.65E-01	1.03E+00	8.23E-02
GWP-lulut	kg CO2 eq	9.81E-01	4.08E-02	1.68E-04	1.20E-04	5.24E-04	1.03E-04
ODP	kg CFC11 eq	1.61E-05	1.18E-05	5.05E-09	8.58E-10	1.47E-08	1.06E-09
AP	mol H+ eq	1.10E+00	1.42E-01	1.57E-03	1.56E-03	2.09E-02	4.53E-04
EP-marine	kg N eq	2.61E-01	2.60E-02	5.61E-04	3.23E-04	5.38E-03	2.19E-04
EP-freshwater	kg P eq	3.94E-01	1.37E-02	4.05E-05	5.54E-05	6.36E-05	1.18E-05
EP-terrestrial	mol N eq	2.08E+00	2.60E-01	6.11E-03	3.42E-03	5.96E-02	1.73E-03
POCP	kg NMVOC eq	6.34E-01	9.81E-02	2.13E-03	9.42E-04	1.67E-02	6.38E-04
ADPE	kg Sb eq	5.41E-03	1.91E-03	1.23E-06	1.25E-06	1.70E-06	3.17E-07
ADPF	MJ	5.20E+03	3.10E+02	5.17E+00	2.79E+00	1.34E+01	1.05E+00
WDP	m3 depriv.	3.47E+01	6.22E+00	2.39E-02	3.38E-02	4.62E-02	-5.65E-03

Impact category	Unit	Use	End of life				Benefits and loads beyond the system boundaries stage
		B6	C1	C2	C3	C4	D
GWP-total	kg CO2 eq	3.07E+02	7.66E-01	2.55E-01	1.12E-01	8.46E-01	-4.24E+00
GWP-biogenic	kg CO2 eq	2.20E+01	1.51E-04	1.57E-04	4.58E-02	7.93E-01	7.57E-02
GWP-fossil	kg CO2 eq	2.84E+02	7.66E-01	2.54E-01	6.64E-02	5.24E-02	-4.30E+00
GWP-lulut	kg CO2 eq	9.39E-01	2.72E-04	9.20E-05	1.56E-04	1.26E-05	-8.91E-03
ODP	kg CFC11 eq	4.32E-06	1.15E-09	5.60E-09	7.70E-10	3.28E-10	-3.44E-08
AP	mol H+ eq	9.30E-01	8.54E-04	1.04E-03	4.41E-04	1.56E-04	-2.52E-02
EP-marine	kg N eq	2.27E-01	2.48E-04	3.88E-04	1.73E-04	1.05E-03	-4.70E-03
EP-freshwater	kg P eq	3.80E-01	6.52E-05	1.81E-05	1.57E-05	8.28E-05	-2.14E-03
EP-terrestrial	mol N eq	1.74E+00	2.36E-03	4.23E-03	1.55E-03	4.67E-04	-4.58E-02
POCP	kg NMVOC eq	5.12E-01	6.49E-04	1.60E-03	4.96E-04	3.67E-04	-1.42E-02
ADPE	kg Sb eq	3.50E-03	1.14E-06	7.19E-07	5.63E-07	2.81E-08	-8.63E-05
ADPF	MJ	4.87E+03	1.77E+00	3.74E+00	7.92E-01	3.14E-01	-4.90E+01
WDP	m3 depriv.	2.85E+01	2.81E-02	1.70E-02	6.11E-03	-1.87E-01	-1.09E+00

Acronyms: GWP-total=Global Warming Potential total; GWP-biogenic=Global Warming Potential biogenic; GWP-fossil=Global Warming Potential fossil; GWP-lulut=Global Warming Potential land use and land use transformation; ODP=Ozone Depletion; AP=Acidification; E=Eutrophication; POCP=Photochemical ozone formation; ADPE=Depletion of abiotic resources-minerals and metals; ADPF=Depletion of abiotic resources-fossil fuels; WDP=Water resource deprivation

4. ENVIRONMENTAL INFORMATION

Table 10: Results of mandatory indicators per unit of product (declared unit, 5000 lumens during 50000 hours)

Indicators	Unit	Value
Renewable primary energy (without raw material)	MJ	1.158E+02
Renewable primary energy (raw material)	MJ	1.392E+01
Total use of renewable primary energy	MJ	1.298E+02
Non-renewable primary energy (without raw material)	MJ	5.179E+03
Non-renewable primary energy (raw material)	MJ	2.043E+01
Total use of non-renewable primary energy	MJ	5.200E+03
Use of secondary materials	kg	0.000E+00
Use of renewable secondary fuels	MJ	0.000E+00
Use of non-renewable secondary fuels	MJ	0.000E+00
Net use of fresh water	M3	2.581E+00
Hazardous waste disposed	kg	3.633E-01
Non-hazardous waste disposed	kg	2.717E+01
Radioactive waste disposed	kg	2.626E-02
Components for reuse	kg	1.604E-01
Materials for recycling	kg	2.442E+00
Materials for energy recovery	kg	2.218E-01
Exported energy	MJ	0.000E+00
Biogenic carbon content of the product	kg	0.000E+00
Biogenic carbon content of the associated packaging	kg	4.781E-01

5. EXTRAPOLATION RULE FOR PRODUCT VARIANTS

5.1 Extrapolation coefficients

The extrapolation coefficients included in the PEP have been developed according to the valid PCR&PSR.The table below shows the key properties of the reference product,function as extrapolation basis.

Table 11:Reference values for the extrapolation

Parameter	Unit	Value
Weight of structural/mechanical parts	kg	1.032
Weight of power equipment	kg	0.178
Weight of light source	kg	1.218
Weight of light management system	kg	0
Weight of product (excl.packaging)	kg	2.428
Weight of packaging	kg	0.958
Typical power consumption	W	21-29
Lumen output	lm	5000
Energy saving coefficient	-	0.5
Lifetime	hr	50,000

The extrapolation at the level of the functional unit needs to be done according to the following formula:

$$\textbf{Extrapolation coefficient at the product level} \times \left(\frac{\textbf{Lighting output of reference product (lumens)}}{\textbf{Lighting output of concerned product (lumens)}}\right)$$

The required extrapolation coefficients at the product level are listed in the following table. The Lighting output should be taken from the data sheet of the individual variant (value of phi)

Table 12:Extrapolation coefficients at the product level

Product name	Manufacturing stage	Distribution stage	Installation stage	Use stage	End of life stage	Module D
ValineoG5 M84 PW19 38-50/4ML-840 ETDD×2	1	1	1	1	1	1
ValineoG5 M84 PW19 38-50/4ML-830 ET	1.001	1.000	1.000	2.000	1.000	1.001
ValineoG5 M84 PW19 38-50/4ML-830 ETDD	1.000	1.000	1.000	1.000	1.000	1.000
ValineoG5 M84 PW19 38-50/4ML-840 ET	0.995	0.994	1.000	2.000	0.991	0.995
ValineoG5 M84 PW19 38-50/4ML-840 ETDD	1.000	1.000	1.000	1.000	1.000	1.000
ValineoG5 M73 PW19 38-50/4ML-830 ETDD	0.971	0.970	0.964	1.000	0.972	0.971
ValineoG5 M73 PW19 38-50/4ML-830 ET	0.965	0.964	0.964	2.000	0.964	0.965
ValineoG5 M73 PW19 38-50/4ML-840 ETDD	0.971	0.970	0.964	1.000	0.972	0.971
ValineoG5 M73 PW19 38-50/4ML-840 ET	0.965	0.964	0.964	2.000	0.964	0.965
ValineoG5 M73 PW19 38-50/4ML-830 ET X2	0.965	0.964	0.964	2.000	0.964	0.965
ValineoG5 M73 PW19 38-50/4ML-830 ETDD X1	0.971	0.970	0.964	1.000	0.972	0.971
ValineoG5 M73 PW19 38-50/4ML-840 ET X2	0.965	0.964	0.964	2.000	0.964	0.965
ValineoG5 M73 PW19 38-50/4ML-840 ETDD X1	0.971	0.970	0.964	1.000	0.972	0.971
ValineoG5 Act M84 PW19 42-8 ETDD8	1.084	1.068	1.084	0.966	1.063	1.084
ValineoG5 Act M73 PW19 42-8 ETDD8	1.055	1.037	1.005	0.966	1.049	1.055
ValineoG5 TW M73 PW19 42-8 ETDD8 X1	1.055	1.037	1.005	0.966	1.049	1.055

5. EXTRAPOLATION RULE FOR PRODUCT VARIANTS

ValineoG5 M46 PW19 38-50/4ML-8MC ETDD	1.100	1.092	1.226	1.000	1.039	1.100
ValineoG5 M46 PW19 38-50/4ML-8MC ET	1.101	1.092	1.226	2.000	1.039	1.101
ValineoG5 IP M84 PW19 38-50/4ML-8MC ETDD	1.047	1.045	1.000	1.000	1.063	1.047
ValineoG5 IP M84 PW19 38-50/4ML-8MC ET	1.044	1.040	1.000	2.000	1.056	1.044
ValineoG5 IP M73 PW19 38-50/4ML-8MC ETDD	1.016	1.011	0.964	1.000	1.029	1.016
ValineoG5 IP M73 PW19 38-50/4ML-8MC ET	1.011	1.006	0.964	2.000	1.022	1.011