



ENVIRONMENTAL PRODUCT DECLARATION



PRODUCT ENVIRONMENTAL PROFILE – LUCEOS S G2

Reference product: LUCEOS S G2 PAW-IL 150-840 ETDS 01

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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 III environmental declarations"



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1. GENERAL INFORMATION

1.1 Product information

Exclusive free-standing LED luminaire with direct and indirect light output. For standard-compliant illumination of single and double workstations. With integrated passive infrared presence detector and daylight sensor. In terms of design and photometric properties, the free-standing luminaire harmonises with suspended and surface-mounted luminaires as well as other free-standing luminaire versions in the project. The luminaire is delivered in 4 packages to protect the individual components. With its wide, slightly asymmetric light distribution, the direct component of the luminaire provides very uniform illumination of the desk surface. The indirect component with Lambertian light distribution provides optimum room illumination. With symmetric limited wide light distribution. Glare evaluation according to UGR rating (EN 12464-1) ≤ 19. VDU workstation-compliant in accordance with 12464-1 Luminaire luminous flux and light color fixed. Luminaire luminous flux 15300 lm, connected load 90 W, maximum luminous efficiency of luminaire 170 lm/W. Light colour neutral white, correlated colour temperature (CCT) 4000 K, general colour rendering index (CRI) $R_a \geq 80$. Colour locus tolerance (initial MacAdam) ≤ 3 SDCM. Mean rated service life $L_{80}(t_{q \leq 25 \text{ °C}}) = 50,000$ h. The light source is replaceable according to the ecodesign requirements (VO (EU) 2019/2020). Luminaire body made of extruded aluminium profile and die-cast aluminium. U-shaped luminaire base. Lamp head inclination adjustable in longitudinal and transverse direction via two grub screws. Surface coated white (RAL 9016). Further colours available on request. Luminaire height: 2000 mm, Length / width of base: 500 mm / 320 mm, Length / width of luminaire head: 677 mm x 290 mm, High luminaire head: 23 mm. Supporting column dimensions: 50 mm x 28 mm. Safety class (EN 61140): I, protection rating (DIN EN 60529): IP20, impact resistance level in accordance with IEC 62262: IK02, testing temperature of wire glow test in accordance with IEC 60695-2-11: 650 °C. Weight: 16,9 kg. Connection via flexible connection cable $3 \times 1 \text{ mm}^2$ (safety plug and C14 cold-device socket), length approx. 3000 mm. Alternative connector types available: Connection plug type J SEV, Switzerland, Connection plug type BS, British Standard 1363. With connection cable. With 2 electronic ballasts, digitally dimmable (DALI). Control gear unit according to DALI-2 standard (EN 62386). The control gear unit is replaceable in accordance with the ecodesign requirements (VO (EU) 2019/2020). The 2-way switch allows separate switching and dimming of the direct and indirect components. The luminaire complies with the fundamental requirements of applicable EU regulations and product safety legislation and bears the CE symbol. Luminaire available for 10 years, spare parts (LED module, control gear unit, optical system) for 15 years from date of invoice, subject to reasonable modifications in the interests of progress.

1. GENERAL INFORMATION

Table 1: Key technological data

Information	Unit	
Light source	-	Integrated LED module
Power supply	-	Integrated power supply
Color temperature	K	4000
Protection index for water and dust (IP)	-	IP20
Impact resistance index (IK)	-	IK02
Nominal operating voltage	V	220-240
Declared lifetime of the luminaire	Hours	50.000
Declaration lifetime of the light source	Hours	50.000
Outgoing luminous flux/Useful output flux	Lumen	15.300
Electrical input power	W	90
Luminous efficiency	Lumen/W	170
Dimension	mm	677 x 320 x 2.000
Reference use scenario	-	Office
Lifetime in years according to reference use scenario	yr	20

1.2 Goal and Scope

Following information have 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*	0.0457 pieces of product
Life cycle stages covered	Cradle-to-grave
Product category according to PSR	Luminaires
Product family name	LUCEOS S G2
All products of the product family ["X" refer to placeholders for different product codes]	See table 13
Extrapolation rules (if family PEP)	The tables in the last section provide information about the used extrapolation rules and the resulting extrapolation factors according to the applied PSR.

* The reference flow is calculated as: $(1,000/\text{outgoing luminous flux of the analyzed product in lumens}) \times (35,000/\text{declared product lifetime of the analyzed product in hours})$

Consequently, the reference flow of the following product correspond to: $(1,000/15,300) \times (35,000/50,000) = 0.0457$

2. CONSTITUENT MATERIALS

2.1 Overview

The product composition is shown in the following table.

Table 3: Product composition

	Weight [in kg]	Share [in %]
Total weight	16,06	100
Product	14,86	92,53
Packaging	1,20	7,47
Additional equipment	0	0

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	14,86	100
Metals	12,42	83,58
• Steel	8,63	58,09
• Aluminium	3,79	25,49
Plastics	1,46	9,84
• Polymethyl methacrylate (PMMA)	1,00	6,74
• Polyethylenterephthalat (PET)	0,06	0,42
• Low-Density Polyethylen (LDPE)	0,09	0,59
• Others (Acryl, EDPM, Polyamide, PVC)	0,31	2,09
Electronics (incl. wires)	0,85	5,74
Other	0,13	0,84

2.3 Packaging

The product composition is shown in the following table.

Table 5: Material composition – packaging

	Weight [in kg]	Share [in %]
Total weight	1,20	100
Paper/cardboard	1,20	100

3. INFORMATION ON LIFE CYCLE STAGES



3.1 Manufacturing stage (A1-A3)

The manufacturer sources all parts from different suppliers. The production site is in Germany. During the production no energy or material input is required.

Materials were modelled with a global process from ecoinvent 3.9.1. Further, transport distances for materials were calculated according to PEP-PCR-ed4- EN-2021 09 06 since no specific data regarding transport distances were available.

- Ship: 19,000 km
- Lorry: 1,000 km

A basic assumption in accordance with PSR-0014-ed2.0-EN-2023 07 13 was used to model the waste streams of the packaging for the raw materials.

According to the PSR 5% of the luminaire's mass shall be considered as packaging (14,9 kg * 0,05 = 0,745 kg). The packaging materials shall then be split as follows:

- | | | |
|--------------|-----|-------------|
| • Wood: | 50% | (0,3725 kg) |
| • Cardboard: | 40% | (0,298 kg) |
| • LDPE: | 10% | (0,0745 kg) |

Further, transportation from the production site to storage site was modeled with 78 km according to the information given by the supplier.

Also, to produce the luminaire a marginal sum of electricity was used which was cut-off.

Additionally, for production of the luminaire only recyclable waste from cardboard was generated with transportation to the location of the end-of-life-stage of 10 km according to manufacturer specific data.



3.2 Distribution stage (A4)

The main market of the product is Europe and there is no specific data available. For this reason, an intracontinental transport (3,500 km by truck (diesel driven, EURO 5, 16-32t payload) to the place of use following PEP-PCR-ed4-EN-2021 09 06 is considered.



3.3 Installation stage (A5)

The product can easily be installed without any special tool. No energy or material input is required. Packaging waste is treated according to the scenario given in PEP-PSR-0014-ed2-EN-2023 07 13.

Since only paper and cardboard is used as packaging material, according to the current PSR, the material is disposed as followed:

- 82% recycling
- 9% incineration with energy recovery
- 9% landfill

3. INFORMATION ON LIFE CYCLE STAGES



3.4 Use stage (B1-B7)

The product has no direct emissions (B1). No maintenance (B2), repair (B3), replacement (B4), or re-furbishment (B5) is required. The use of the product does consume electricity (B6), but no water (B7).

The operational electricity consumption over the entire lifetime of the product is 2475 kWh. It has been calculated according to PSR edition 2. The used energy model refers to an average European electricity grid mix from Country specific electricity mix based on ecoinvent 3.9.1 database.

As the luminaire is sold to different countries within Europe in different proportions, the use phase is modeled by using country-specific processes from ecoinvent 3.9.1. according to the given proportions of sales per country (shown in the following table)

Table 6: Proportions of sales per country

Country of sale	Share in %	ecoinvent 3.9.1 process
Germany	75	Electricity, low voltage {DE} market for electricity, low voltage Cut-off, S
Austria	10	Electricity, low voltage {AT} market for electricity, low voltage Cut-off, S
Switzerland	10	Electricity, low voltage {CH} market for electricity, low voltage Cut-off, S
Europe	5	Electricity, low voltage {RER} market group for electricity, low voltage Cut-off, S

As the luminaire has a light management function described as a combination of presence detection function and luminosity function, the power consumption is reduced by 45% in accordance with PSR-0014-ed2.0-EN-2023 07 13. This results in a power consumption of 2.475 kWh over the expected service life of 50.000 hours.



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

The product falls under the Waste from Electrical and Electronic Equipment (WEEE) Directive 2012/19/EU. According to Eurostat (Statistics | Eurostat (europa.eu) 79,4% of all components are being recycled. Since there is no specific information of disposal methods for the remaining product, 21,6% are directed to unsanitary landfill, which matches the assumption of EN 50693:2019 Table G.4.

Since no specific transportation data was available for this life cycle stage, transportation distances were modeled according to PEP-PCR-ed4- EN-2021 09 06 (national transport):

- Lorry: 1.000km (ecoinvent 3.9.1 dataset: Transport, freight, lorry >32 metric ton, EURO5 {RER}| Cut-off, S)

The environmental information included in this study cover all stages of the life cycle („cradle-to-grave“). The life cycle is divided into manufacturing stage (A1-A3), distribution stage (A4), installation stage (A5), use stage (B6), End-of-life stage (C1-C4). 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 and EN 15804+A2:2019.

The results have been calculated using the LCA Software “SimaPro 9.5.0” and the LCI database “ecoinvent 3.9.1”.

4. ENVIRONMENTAL INFORMATION

4.1 Results per functional unit

The following results of the environmental declaration have been developed, considering an outgoing artificial luminous flux of 1,000 lumens over a reference lifetime of 35,000 hours.

Acronyms: GWP-total=Global Warming Potential total; GWP-biogenic=Global Warming Potential biogenic; GWP-fossil=Global Warming Potential fossil; GWP-luluc=Global Warming Potential land use and land use change; 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 re- source deprivation; PERE=Renewable primary energy (without raw material); PERM=Renewable primary energy (raw material); PERT=Total use of renewable primary energy; PENRE=Non-renewable primary energy (without raw material); PENRM=Non-renewable primary energy (raw material); PENRT=Total use of non-renewable primary energy; SM=Use of secondary materials; RSF=Use of renewable secondary fuels; NRSF=Use of non-renewable secondary fuels; FW=Net use of fresh water; HWD=Hazardous waste disposed; NHWD=Non-hazardous waste disposed; RWD=Radioactive waste disposed; CRU=Components for reuse; MFR=Materials for recycling; MER=Materials for energy recovery; EEE=Exported electricity; EET=Exported thermal energy; Biog. C in product=Biogenic carbon content of the product; Biog. C in packaging=Biogenic carbon content of the associated packaging

4. ENVIRONMENTAL INFORMATION

Table 8: Results core environmental impact indicators per functional unit (0.0457 kg product incl. packaging)

Impact category	Unit	Total (excl. D)	Manufacturing	Distribution	Installation
			A1 -A3	A4	A5
GWP - total	kg CO2 eq.	5,44E+01	5,82E+00	2,75E-01	2,88E-02
GWP - fossil	kg CO2 eq.	4,90E+01	5,77E+00	2,74E-01	1,40E-03
GWP - biogenic	kg CO2 eq.	5,32E+00	1,26E-02	5,15E-04	2,74E-02
GWP - luluc	kg CO2 eq.	1,06E-01	3,59E-02	1,26E-04	1,07E-06
ODP	kg CFC-11 eq.	7,75E-07	2,12E-07	5,83E-09	3,00E-11
AP	Mole of H+ eq.	1,79E-01	4,35E-02	8,98E-04	8,58E-06
EP - freshwater	kg P eq.	6,28E-02	4,05E-03	1,90E-05	3,42E-07
EP - marine	kg N eq.	4,04E-02	7,23E-03	3,11E-04	7,14E-06
EP - terrestrial	Mole of N eq.	3,37E-01	7,45E-02	3,29E-03	3,16E-05
POCP	kg NMVOC eq.	1,05E-01	2,85E-02	1,40E-03	1,52E-05
ADPE	kg Sb eq.	7,62E+02	7,74E+01	3,90E+00	2,04E-02
ADPF	MJ	1,29E-03	7,58E-04	7,19E-07	5,38E-09
WDP	m ³ world equiv.	5,48E+00	1,35E+00	1,83E-02	2,93E-04
Impact category	Unit	Use	End of life	Benefits and loads beyond the system boundaries stage	
		B6	C1-C4	D	
GWP - total	kg CO2 eq.	4,81E+01	2,14E-01	-4,36E+00	
GWP - fossil	kg CO2 eq.	4,28E+01	8,85E-02	-4,32E+00	
GWP - biogenic	kg CO2 eq.	5,16E+00	1,26E-01	-8,35E-03	
GWP - luluc	kg CO2 eq.	7,02E-02	4,55E-05	-2,68E-02	
ODP	kg CFC-11 eq.	5,55E-07	1,72E-09	-1,32E-07	
AP	Mole of H+ eq.	1,35E-01	3,17E-04	-3,35E-02	
EP - freshwater	kg P eq.	5,87E-02	1,06E-05	-3,92E-03	
EP - marine	kg N eq.	3,25E-02	3,52E-04	-5,20E-03	
EP - terrestrial	Mole of N eq.	2,58E-01	1,14E-03	-5,44E-02	
POCP	kg NMVOC eq.	7,49E-02	4,83E-04	-2,23E-02	
ADPE	kg Sb eq.	6,79E+02	1,21E+00	-9,35E-04	
ADPF	MJ	5,27E-04	2,41E-07	-5,90E+01	
WDP	m ³ world equiv.	4,11E+00	7,50E-03	-1,03E+00	

4. ENVIRONMENTAL INFORMATION

Table 9: Results indicators describing resource use, waste categories, and output flows per functional unit (0.0457 kg product incl. packaging)

Indicators	Unit	Value
Renewable primary energy (without raw material)	MJ	1,41E+02
Renewable primary energy (raw material)	MJ	1,11E+02
Total use of renewable primary energy	MJ	2,52E+02
Non-renewable primary energy (without raw material)	MJ	1,65E+02
Non-renewable primary energy (raw material)	MJ	6,48E+02
Total use of non-renewable primary energy	MJ	8,13E+02
Use of secondary materials	kg	0,00E+00
Use of renewable secondary fuels	MJ	0.00E+00
Use of non-renewable secondary fuels	MJ	0.00E+00
Net use of fresh water	M3	5,82E-01
Hazardous waste disposed	kg	2,00E-03
Non-hazardous waste disposed	kg	5,66E+00
Radioactive waste disposed	kg	3,73E-03
Components for reuse	kg	0,00E+00
Materials for recycling	kg	5,84E-01
Materials for energy recovery	kg	4,94E-03
Exported energy	MJ	0,00E+00
Biogenic carbon content of the product	kg	0,00E+00
Biogenic carbon content of the associated packaging	kg	2,33E-02

4. ENVIRONMENTAL INFORMATION

4.2 Results per unit of product

The following results of the environmental declaration have been developed, considering one piece of product.

Table 10: Results core environmental impact indicators per unit of product

Impact category	Unit	Total (excl. D)	Manufacturing	Distribution	Installation
			A1 -A3	A4	A5
GWP - total	kg CO2 eq.	1,19E+03	1,27E+02	2,75E-01	2,88E-02
GWP - fossil	kg CO2 eq.	1,07E+03	1,26E+02	2,74E-01	1,40E-03
GWP - biogenic	kg CO2 eq.	1,17E+02	2,75E-01	5,15E-04	2,74E-02
GWP - luluc	kg CO2 eq.	2,32E+00	7,84E-01	1,26E-04	1,07E-06
ODP	kg CFC-11 eq.	1,70E-05	4,64E-06	5,83E-09	3,00E-11
AP	Mole of H+ eq.	3,92E+00	9,51E-01	8,98E-04	8,58E-06
EP - freshwater	kg P eq.	1,37E+00	8,87E-02	1,90E-05	3,42E-07
EP - marine	kg N eq.	8,84E-01	1,58E-01	3,11E-04	7,14E-06
EP - terrestrial	Mole of N eq.	7,37E+00	1,63E+00	3,29E-03	3,16E-05
POCP	kg NMVOC eq.	2,30E+00	6,24E-01	1,40E-03	1,52E-05
ADPE	kg Sb eq.	1,67E+04	1,69E+03	3,90E+00	2,04E-02
ADPF	MJ	2,81E-02	1,66E-02	7,19E-07	5,38E-09
WDP	m ³ world equiv.	1,20E+02	2,96E+01	1,83E-02	2,93E-04
Impact category	Unit	Use	End of life	Benefits and loads beyond the system boundaries stage	
		B6	C1-C4	D	
GWP - total	kg CO2 eq.	1,05E+03	4,69E+00	-9,53E+01	
GWP - fossil	kg CO2 eq.	9,37E+02	1,94E+00	-9,46E+01	
GWP - biogenic	kg CO2 eq.	1,13E+02	2,76E+00	-1,83E-01	
GWP - luluc	kg CO2 eq.	1,54E+00	9,96E-04	-5,87E-01	
ODP	kg CFC-11 eq.	1,22E-05	3,76E-08	-2,89E-06	
AP	Mole of H+ eq.	2,94E+00	6,93E-03	-7,33E-01	
EP - freshwater	kg P eq.	1,29E+00	2,32E-04	-8,58E-02	
EP - marine	kg N eq.	7,12E-01	7,70E-03	-1,14E-01	
EP - terrestrial	Mole of N eq.	5,64E+00	2,50E-02	-1,19E+00	
POCP	kg NMVOC eq.	1,64E+00	1,06E-02	-4,88E-01	
ADPE	kg Sb eq.	1,15E-02	5,28E-06	-2,05E-02	
ADPF	MJ	1,49E+04	2,64E+01	-1,29E+03	
WDP	m ³ world equiv.	8,99E+01	1,64E-01	-2,24E+01	

4. ENVIRONMENTAL INFORMATION

Table 11: Results indicators describing resource use, waste categories, and output flows per unit of product

Indicators	Unit	Value
Renewable primary energy (without raw material)	MJ	3,08E+03
Renewable primary energy (raw material)	MJ	2,42E+03
Total use of renewable primary energy	MJ	5,50E+03
Non-renewable primary energy (without raw material)	MJ	3,60E+03
Non-renewable primary energy (raw material)	MJ	1,42E+04
Total use of non-renewable primary energy	MJ	1,78E+04
Use of secondary materials	kg	0,00E+00
Use of renewable secondary fuels	MJ	0,00E+00
Use of non-renewable secondary fuels	MJ	0,00E+00
Net use of fresh water	M3	1,27E+01
Hazardous waste disposed	kg	4,38E-02
Non-hazardous waste disposed	kg	1,24E+02
Radioactive waste disposed	kg	8,15E-02
Components for reuse	kg	0,00E+00
Materials for recycling	kg	1,28E+01
Materials for energy recovery	kg	1,08E-01
Exported energy	MJ	0,00E+00
Biogenic carbon content of the product	kg	0,00E+00
Biogenic carbon content of the associated packaging	kg	5,11E-01

5. EXTRAPOLATION RULE FOR PRODUCT VARIANTS

5. 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 12: Reference values for the extrapolation

Parameter	Unit	Value
Weight of structural/mechanical parts	kg	13,948
Weight of power equipment	kg	0,353
Weight of light source	kg	0,251
Weight of light management system	kg	0,01
Weight of product (excl. packaging)	kg	14,862
Weight of packaging	kg	1,200
Weight of product (incl. packaging)	kg	16,062
Typical power consumption	W	90
Lumen output	lm	15300
Energy saving coefficient	-	0,55
Lifetime	hr	50000

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

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

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

Table 13: Extrapolation coefficients at the product level

Product variant	Fabrication stage	Distribution stage	Installation stage	Use stage	End of life stage
Luceos S G2 PAW-IL 85-840 ETDS	1,76	1,76	1,76	1,21	1,76
Luceos S-T PAW-IL 300-840 ETDS	0,78	0,78	0,79	1,00	0,78
Luceos S-U PAW-IL 170-840 ETDS	1,38	1,38	1,39	1,21	1,38
Luceos S-U PAW-IL 300-840 ETDS	0,78	0,78	0,79	1,00	0,78
Luceos S G2 PAW-IL 150-840 ETDD	1,00	1,00	1,00	1,82	1,00
Luceos S G2 PAW-IL 85-840 ETDD	2,68	2,68	2,68	3,36	2,68
Luceos S-T PAW-IL 300-840 ETDD	0,78	0,78	0,79	1,82	0,78
Luceos S-U PAW-IL 170-840 ETDD	1,38	1,38	1,39	2,20	1,38
Luceos S-U PAW-IL 300-840 ETDD	0,78	0,78	0,79	1,82	0,78

5. EXTRAPOLATION RULE FOR PRODUCT VARIANTS

Table 13: Extrapolation coefficients at the product level

Product variant	Fabrication stage	Distribution stage	Installation stage	Use stage	End of life stage
Luceos S G2 PAW-IL 85-830 ETDS	1,75	1,75	1,75	1,20	1,75
Luceos S-T PAW-IL 300-830 ETDS	1,75	0,78	0,79	1,00	0,78
Luceos S-U PAW-IL 170-830 ETDS	1,00	1,37	1,38	1,20	1,37
Luceos S-U PAW-IL 300-830 ETDS	1,75	0,78	0,79	1,00	0,78
Luceos S G2 PAW-IL 150-830 ETDD	1,00	1,00	1,00	0,91	1,00
Luceos S G2 PAW-IL 85-830 ETDD	1,00	1,75	1,75	1,09	1,75
Luceos S-T PAW-IL 300-830 ETDD	1,75	0,78	0,79	0,91	0,78
Luceos S-U PAW-IL 170-830 ETDD	0,79	1,37	1,38	1,09	1,37
Luceos S-U PAW-IL 300-830 ETDD	1,38	0,78	0,79	0,91	0,78

Table 14: Lighting output of the product variants

Product variant	Lighting output (in lumen)
Luceos S G2 PAW-IL 85-840 ETDS	8700
Luceos S-T PAW-IL 300-840 ETDS	30600
Luceos S-U PAW-IL 170-840 ETDS	17400
Luceos S-U PAW-IL 300-840 ETDS	30600
Luceos S G2 PAW-IL 150-840 ETDD	15300
Luceos S G2 PAW-IL 85-840 ETDD	5700
Luceos S-T PAW-IL 300-840 ETDD	30600
Luceos S-U PAW-IL 170-840 ETDD	17400
Luceos S-U PAW-IL 300-840 ETDD	30600

5. EXTRAPOLATION RULE FOR PRODUCT VARIANTS

Table 14: Lighting output of the product variants

Product variant	Lighting output (in lumen)
Luceos S G2 PAW-IL 85-830 ETDS	8300
Luceos S-T PAW-IL 300-830 ETDS	29000
Luceos S-U PAW-IL 170-830 ETDS	16600
Luceos S-U PAW-IL 300-830 ETDS	29000
Luceos S G2 PAW-IL 150-830 ETDD	14500
Luceos S G2 PAW-IL 85-830 ETDD	8300
Luceos S-T PAW-IL 300-830 ETDD	29000
Luceos S-U PAW-IL 170-830 ETDD	16600
Luceos S-U PAW-IL 300-840 ETDD	29000

