



ENVIRONMENTAL PRODUCT DECLARATION

Independent verification of the declaration and data in compliance with ISO 14025

LEDVANCE STREETLIGHT FLEX GEN 2 (DALI)

Reference product:

SL FLEX LA P 115W 740 RV30ST T 72 GY C2 OD



Registration number	LEDV-00059-V01.01-EN	Drafting rules	PEP-PCR-ED4-EN-2021 09 06
Verifier accreditation number	VH08	Supplemented by	PSR-0014-ED2.0-EN-2023 07 13
Date of issue	09-2025	Validity period	5 years
EPD prepared by	LEDVANCE GmbH	Information and reference documents:	www.pep-ecopassport.org
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)			
PEP are compliant with XP C08-100-1:2016 or EN 50693:2019			
The elements of the present PEP may not be compared with elements from any other program.			
Document in compliance with ISO 14025: 2006 « Environmental labels and declarations. Type III environmental declarations»			

1. General information

1.1 Company information

Further technical information can be obtained by contacting:

- LEDVANCE GmbH, Parkring 1-5, 85748 Garching, Germany
- or on the website www.ledvance.com
- or by E-Mail LCA@ledvance.com.

1.2 Reference product information

The name of the product is under study SL FLEX LA P 115W 740 RV30ST T 72 GY C2 OD. The assessed product range covers Luminaire from the Streetlight product family, with main technical features: modular design in three sizes (Small, Medium, Large), optimized light distribution, high luminous efficacy (up to 180 lm/W), IP66/IK09 protection, tool-free access, ZHAGA D4i compatibility, and long service life up to 100,000 hours (L90/B10). The luminaires are used for street and public area lighting. The key information about the product is summarized in the following table.

Table 1: Key technological data

Information	
Type of luminaire	Streetlight
Short Text Product	SL FLEX LA P 115W 740 RV30ST T 72 GY C2 OD
Operating mode	Integrated LED driver
Lamp type	Integrated LED not exchangeable
Colour temperature	4000 K
Nominal wattage	115 W
Luminous flux	18,400 lm
Luminous efficacy	160 lm/W
Colour rendering index Ra	>70
Protection class IK	IK09
Type of protection	IP66
Nominal lifetime	100,000 hrs
Length	732 mm
Width	112 mm
Height / Diameter	300 mm
Area of Application	Outdoor applications, Urban

Based on the assigned lifetime according to EN 15193-1:2017 for indoor applications and EN 13201-5:2016 for outdoor applications:

Table 2: Calculated operation lifetime in years per type of building

Type of building	Annual operating hours by default [h]	Operational lifetime [years]
Outdoor applications, Urban	4,000	25

Following the requirements of the PSR, the operational lifetime of the luminaire of study is 25 years.

1.3 Overview

The general information used for the EPD are listed below:

Table 3: Basic EPD information

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*	0.019 product(s)
Life cycle stages covered (according to EN15804+A2)	Cradle-to-grave and Module D
Product category according to PSR	Luminaires
Product family name (if family EPD)	STREETLIGHT FLEX GEN2 (DALI)

* The reference flow is calculated as:

$$\frac{1,000 \text{ lm}}{\text{Outgoing Luminous Flux of the Analyzed Product (lm)}} \times \frac{35,000 \text{ h}}{\text{Declared Product Lifetime of the Analyzed Product (h)}}$$

Consequently, the reference flow of the following product corresponds to:

$$\frac{1,000}{18,400} \times \frac{35,000}{100,000} = 0.019$$

1.4 Homogeneous environmental family

The reference product represents the STREETLIGHT FLEX GEN 2 (DALI) family, which differs in terms of power (W), useful output flux (lm) of the integrated LED installed in the luminaires, weight, and length. All products in this family do not have sensors. The reference product is equipped with a Dali Driver, while some other products within the family are equipped with On/Off Drivers.

The range of variations for the products in the same family are the following:

Table 4: Range of variation for homogeneous environmental family

Criteria	Unit	Value for the reference product	Minimum value in product range	Maximum value in product range
Electrical Power	W	115	20	164
Useful output flux	lm	16,800	2,360	26,568
Length	mm	732	560	732

The present PEP declaration is valid for all the products in the described homogenous environmental family. The spreadsheet provided in paragraph 5 Extrapolation of this document shall be used by the PEP user to extrapolate the impact of the other products from the STREETLIGHT FLEX GEN 2 (DALI) Family, based on the technical parameters of the considered product, as requested by the PSR.

2 Constituent materials

2.1 Overview

Table 5: Product composition

Information	Weight [kg]	Share [%]
Total weight	9.121	100
Product	8.348	91.5
Packaging	0.773	8.5

2.2 Product

Table 6: Material composition - product

Information	Weight [kg]	Sum of weight [kg]	Share [%]
TOTAL		8.348	100
Metals		5.458	65.4
Aluminium	4.931		33.3
Steel	0.522		1.1
Magnets	0.005		0.1
Plastics		0.755	9.0
Silicone Glue	0.479		5.7
PC	0.162		1.9
Silicone Rubber	0.040		0.5
PA66	0.039		0.5
Other	0.035		<0.5
Others		2.135	25.5
Glass	1.372		16.4
Electronics	0.660		7.9
Wires & Connector	0.103		1.2

2.3 Packaging

Table 7: Material composition - packaging

Information	Weight [kg]	Share [%]
TOTAL	0.773	100
Paper/cardboard	0.619	80.0
Plastics	0.155	20.0

Packaging of raw materials and components is considered as an average quantity of 5 % in mass of the luminaire according to /PSR-0014-ED2.0-EN-2023 07 13/. This additional packaging is not considered in Table 7 as it is an additional assumption.

3 Information on life cycle stages



3.1 Manufacturing

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

The production site has a certified Environmental management system according to ISO 14001:2015.



3.2 Distribution

The main market for the product is Europe. For this reason, an Intercontinental transport following PEP-PCR-ed4-EN-2021 09 06 is considered in the model:

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

The background assumptions for the transportation are listed below.

Table 8: Background information distribution

Information	Unit	Truck	Ship
Fuel type	-	Diesel	Heavy fuel oil
Fuel consumption	l/(kg*km)	2.80E-03	2.30E-04
Total distance	km	1,000	19,000
Capacity utilisation (including empty runs)	%	85	48
Bulk density of transported products	kg/m3	n.a.	n.a.
Volume capacity utilisation factor	-	n.a.	n.a.



3.3 Installation

No energy or material input is required. During installation, the product is unpacked. The packaging materials is treated by applying default values following PSR-0014-ED2.0-EN-2023 07 13.

Table 9: End of life data for packaging in Europe

Treatment scenario	Metal	Paper & Cardboard	Wood	Plastics
Incineration without energy recovery	0 %	0 %	0 %	0 %
Incineration with energy recovery	2 %	9 %	31 %	37 %
Landfill	21 %	9 %	38 %	23 %
Recycling rate	77 %	82 %	31 %	41 %



3.4 Use stage

The product has no direct emissions (B1) and is designed so that no maintenance is required (B2) or parts need to be replaced (B4). Furthermore, no standard repairs (B3) or refurbishments (B5) are foreseen. The use of the product does consume electricity (B6), but no water (B7).

The main market for the product is Europe. Therefore, the European average grid mix has been used. In addition, the reference product is equipped with a Dali Driver. Therefore, the total energy consumption in B6 is calculated with an energy saving coefficient of 0.5 according to /PSR-0014-ED2.0-EN-2023 07 13/.



3.5 End of life

The product falls under the Waste from Electrical and Electronic Equipment (WEEE) directive 2012/19/EU and its main market is Europe. Therefore, European statistics on the treatment of lighting equipment as subcategory of WEEE from 2018 has been used. The EoL scenario displays a European average and is the following:

- Incineration without energy recovery: 6.5%
- Incineration with energy recovery: 7.6%
- Landfilling: 6.5%
- Recycling: 79.4%



3.6 Benefits and loads beyond the system boundaries stage

The incineration with energy recovery and recycling of the product (incl. packaging) generates environmental benefits by avoiding the production of primary materials or energy. The amount and type of material flows used for the calculation of benefits are listed in Table 10.

Table 10: Material flows for Benefits and loads beyond the system boundaries

Information	Unit	Value
Total weight going into re-use	kg/functional unit	0
Total weight going into recycling	kg/functional unit	0.126
- Share of metals	%	65.4
- Share of plastics	%	9.0
- Share of others	%	25.6
Total weight going into incineration with energy recovery	kg/functional unit	0.027
- Share of paper	%	44.0
- Share of others	%	56.0

4 Environmental impacts

4.1 Introduction

The following table summarizes the key information for the calculation of the environmental impacts:

Table 11: Basic information LCA model

Information	Value
Used LCA software	Sphera Solutions, Inc.©, LCA for experts 10
Used LCI database	Sphera Professional 2025.1 + Electronics Extension 2025.1
PCR version	PEP-PCR-ED4-EN-2021 09 06
PSR version	PEP-PSR-0014-ED2.0-EN-2023 07 13
Functional unit	Provide lighting that delivers an outgoing artificial luminous flux of 1,000 lumens during a reference lifetime of 35,000 hours

4.2 Results per functional unit

The following results of the environmental declaration have been developed by considering an outgoing artificial luminous flux of 1,000 lumens over a reference lifetime of 35,000 hours. The results refer to the core environmental impact indicators and indicators describing resource use, waste categories, and output flows according to EN 15804:2012+A2:2019.

Table 12: Results for core environmental impact indicators per functional unit

	Total (excl. D)	Raw materials & parts		Manufac- turing	Distribu- tion	Install- ation	Use	End of life			Benefits and loads beyond the system boundaries
		A1	A2	A3	A4	A5	B6	C2	C3	C4	D
GWP - total [kg CO ₂ eq.]	3.66E+01	1.44E+00	1.23E-02	3.61E-02	4.79E-02	1.26E-02	3.50E+01	1.16E-02	4.74E-02	7.94E-03	-7.07E-01
GWP - fossil [kg CO ₂ eq.]	3.62E+01	1.43E+00	1.22E-02	4.60E-02	4.78E-02	8.90E-03	3.45E+01	1.16E-02	4.74E-02	7.95E-03	-7.17E-01
GWP - biogenic [kg CO ₂ eq.]	3.47E-01	-1.17E-03	-7.87E-05	-1.01E-02	-4.61E-05	3.67E-03	3.55E-01	-7.47E-05	1.63E-05	-1.06E-05	1.13E-02
GWP - luluc [kg CO ₂ eq.]	1.23E-01	8.54E-03	1.28E-04	1.66E-04	1.33E-04	2.22E-05	1.14E-01	1.21E-04	8.97E-06	3.32E-06	-1.69E-03
ODP [kg CFC-11 eq.]	7.99E-10	1.17E-11	2.06E-15	2.17E-13	5.46E-15	2.07E-14	7.87E-10	1.95E-15	4.78E-14	4.73E-15	-1.07E-11
AP [Mole of H ⁺ eq.]	8.47E-02	8.04E-03	2.23E-05	1.35E-04	7.88E-04	1.63E-05	7.57E-02	2.11E-05	2.11E-05	9.11E-06	-3.26E-03
EP - freshwater [kg P eq.]	7.88E-05	4.35E-06	3.34E-08	3.37E-07	4.36E-08	1.45E-07	7.39E-05	3.17E-08	8.97E-09	2.32E-09	-6.93E-07
EP - marine [kg N eq.]	2.00E-02	1.49E-03	9.47E-06	4.26E-05	2.83E-04	8.41E-06	1.81E-02	8.98E-06	7.92E-06	3.52E-06	-6.22E-04
EP - terrestrial [Mole of N eq.]	2.24E-01	1.62E-02	1.01E-04	4.18E-04	3.10E-03	7.23E-05	2.03E-01	9.57E-05	1.03E-04	4.08E-05	-6.80E-03
POCP [kg NMVOC eq.]	5.04E-02	4.40E-03	2.00E-05	1.08E-04	7.78E-04	1.33E-05	4.50E-02	1.90E-05	2.06E-05	9.45E-06	-1.81E-03
ADPE [kg Sb eq.]	7.69E-05	6.97E-05	8.24E-10	8.42E-09	1.74E-09	4.11E-09	7.18E-06	7.82E-10	4.35E-10	5.83E-11	-1.06E-05
ADPF [MJ]	7.25E+02	1.86E+01	1.59E-01	6.58E-01	5.76E-01	8.49E-02	7.05E+02	1.51E-01	6.53E-02	1.32E-02	-9.06E+00
WDP [m ³ world equiv.]	9.33E+00	4.11E-01	5.67E-05	2.52E-01	1.24E-04	1.11E-03	8.66E+00	5.37E-05	6.81E-03	1.69E-03	-7.65E-02

Table 13: Results for indicators describing resource use, waste categories, and output flows per functional unit

Indicator	Acronym [Unit]	Value
Renewable primary energy (without raw material)	PERE [MJ]	4.85E+02
Renewable primary energy (raw material)	PERM [MJ]	2.12E-01
Total use of renewable primary energy	PERT [MJ]	4.85E+02
Non-renewable primary energy (without raw material)	PENRE [MJ]	7.16E+02
Non-renewable primary energy (raw material)	PENRM [MJ]	4.72E-01
Total use of non-renewable primary energy	PENRT [MJ]	7.16E+02
Use of secondary materials	SM [kg]	1.08E-01
Use of renewable secondary fuels	RSF [MJ]	0.00E+00
Use of non-renewable secondary fuels	NRSF [MJ]	0.00E+00
Net use of fresh water	FW [m3]	9.26E+00
Hazardous waste disposed	HWD [kg]	9.26E-07
Non-hazardous waste disposed	NHWD [kg]	7.13E-01
Radioactive waste disposed	RWD [kg]	1.11E-01
Components for reuse	CRU [kg]	0.00E+00
Materials for recycling	MFR [kg]	9.90E-02
Materials for energy recovery	MER [kg]	2.83E-02
Exported electricity	EEE [MJ]	9.11E-02
Exported thermal energy	EET [MJ]	1.99E-01
Biogenic carbon content of the product	Biog. C in product [kg]	0.00E+00
Biogenic carbon content of the associated packaging	Biog. C in packaging [kg]	5.06E-03

4.3 Results per unit of product

The following results of the environmental declaration have been developed by considering the entire life cycle of one product with the technical properties described in paragraph 1.

Table 14: Results core environmental impact indicators per unit of product

	Total (excl. D)	Raw materials & parts		Manufac- turing	Distribu- tion	Install- ation	Use	End of life			Benefits and loads beyond the system boundaries
		A1	A2	A3	A4	A5	B6	C2	C3	C4	D
GWP - total [kg CO2 eq.]	1.93E+03	7.56E+01	6.45E-01	1.90E+00	2.52E+00	6.62E-01	1.84E+03	6.11E-01	2.49E+00	4.17E-01	-3.72E+01
GWP - fossil [kg CO2 eq.]	1.90E+03	7.52E+01	6.42E-01	2.42E+00	2.51E+00	4.68E-01	1.82E+03	6.09E-01	2.49E+00	4.18E-01	-3.77E+01
GWP - biogenic [kg CO2 eq.]	1.83E+01	-6.17E-02	-4.14E-03	-5.29E-01	-2.43E-03	1.93E-01	1.87E+01	-3.92E-03	8.58E-04	-5.59E-04	5.93E-01
GWP - luluc [kg CO2 eq.]	6.47E+00	4.49E-01	6.71E-03	8.73E-03	7.01E-03	1.17E-03	5.99E+00	6.36E-03	4.72E-04	1.75E-04	-8.90E-02
ODP [kg CFC-11 eq.]	4.20E-08	6.14E-10	1.08E-13	1.14E-11	2.87E-13	1.09E-12	4.14E-08	1.03E-13	2.51E-12	2.49E-13	-5.61E-10
AP [Mole of H+ eq.]	4.45E+00	4.22E-01	1.17E-03	7.08E-03	4.14E-02	8.56E-04	3.98E+00	1.11E-03	1.11E-03	4.79E-04	-1.71E-01
EP - freshwater [kg P eq.]	4.14E-03	2.28E-04	1.76E-06	1.77E-05	2.29E-06	7.63E-06	3.88E-03	1.67E-06	4.71E-07	1.22E-07	-3.64E-05
EP - marine [kg N eq.]	1.05E+00	7.81E-02	4.98E-04	2.24E-03	1.49E-02	4.42E-04	9.54E-01	4.72E-04	4.16E-04	1.85E-04	-3.27E-02
EP - terrestrial [Mole of N eq.]	1.18E+01	8.52E-01	5.31E-03	2.20E-02	1.63E-01	3.80E-03	1.07E+01	5.03E-03	5.40E-03	2.15E-03	-3.57E-01
POCP [kg NMVOC eq.]	2.65E+00	2.32E-01	1.05E-03	5.70E-03	4.09E-02	6.99E-04	2.37E+00	9.98E-04	1.08E-03	4.97E-04	-9.50E-02
ADPE [kg Sb eq.]	4.04E-03	3.66E-03	4.33E-08	4.43E-07	9.12E-08	2.16E-07	3.78E-04	4.11E-08	2.29E-08	3.06E-09	-5.59E-04
ADPF [MJ]	3.81E+04	9.78E+02	8.35E+00	3.46E+01	3.03E+01	4.46E+00	3.71E+04	7.92E+00	3.43E+00	6.95E-01	-4.77E+02
WDP [m³ world equiv.]	4.91E+02	2.16E+01	2.98E-03	1.33E+01	6.53E-03	5.82E-02	4.55E+02	2.83E-03	3.58E-01	8.89E-02	-4.02E+00

Table 15: Results indicators describing resource use, waste categories, and output flows per unit of product

Indicator	Acronym [Unit]	Value
Renewable primary energy (without raw material)	PERE [MJ]	2.55E+04
Renewable primary energy (raw material)	PERM [MJ]	1.11E+01
Total use of renewable primary energy	PERT [MJ]	2.55E+04
Non-renewable primary energy (without raw material)	PENRE [MJ]	3.76E+04
Non-renewable primary energy (raw material)	PENRM [MJ]	2.48E+01
Total use of non-renewable primary energy	PENRT [MJ]	3.77E+04
Use of secondary materials	SM [kg]	5.65E+00
Use of renewable secondary fuels	RSF [MJ]	0.00E+00
Use of non-renewable secondary fuels	NRSF [MJ]	0.00E+00
Net use of fresh water	FW [m3]	4.87E+02
Hazardous waste disposed	HWD [kg]	4.87E-05
Non-hazardous waste disposed	NHWD [kg]	3.75E+01
Radioactive waste disposed	RWD [kg]	5.85E+00
Components for reuse	CRU [kg]	0.00E+00
Materials for recycling	MFR [kg]	5.21E+00
Materials for energy recovery	MER [kg]	1.49E+00
Exported electricity	EEE [MJ]	4.79E+00
Exported thermal energy	EET [MJ]	1.05E+01
Biogenic carbon content of the product	Biog. C in product [kg]	0.00E+00
Biogenic carbon content of the associated packaging	Biog. C in packaging [kg]	2.66E-01

5 Extrapolation

5.1 Extrapolation rules

Extrapolations rules have been calculated following PCR-ed4-EN-2021 09 14 and PSR-0014-ed2.0- EN-2023 07 18. The defined rules shall be applied using the Extrapolation rules file provided in the following tables.

Table 16: Extrapolation parameters for reference product

Parameter	Value for reference product (SLFLEX LA P 115W 740 RV30ST T 72 GY C2 OD)
Lighting output [lm]	16,800
Weight of light source [kg]	0.325
Weight of luminaire structure [kg]	7.333
Weight of control gear [kg]	0.690
Weight of light management system [kg]	0
Weight of packaging [kg]	0.773
Power [W]	115
Length [mm]	732
Height [mm]	112
Width [mm]	300

The extrapolation coefficients calculation at the functional unit level shall be taken into account with the following formula:

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

5.2 Extrapolation coefficients

The reported extrapolation coefficients are intended at product level (declared unit) and not at functional unit.

- The reference product is equipped with a DALI driver, hence it is assigned an energy-saving coefficient of 0.5. Some products within the family are equipped with on/off drivers; these products are assigned a coefficient of 1.

Table 17: Calculated Extrapolation coefficients per product

Product Name	Useful output flux [lm]	Manufacturing	Distribution	Installation	Use	EoL
SLFLEX LA P 115W 740 RV30ST T 72 GY C2 OD	18400	1.00	1.00	1.00	1.00	1.00
SLFLEX SM P 020W 727 RV25ST N 08 GY C2 O1	2600	0.56	0.53	0.89	0.35	0.50
SLFLEX SM P 020W 730 RV25ST N 08 GY C2 O1	2800	0.56	0.53	0.89	0.35	0.50
SLFLEX SM P 020W 722 RU20ST N 08 WA C2 O1	2360	0.56	0.53	0.89	0.35	0.50
SLFLEX SM P 020W 727 RU20ST N 08 WA C2 O1	2600	0.56	0.53	0.89	0.35	0.50
SLFLEX SM P 036W 727 RV25ST N 16 GY C2 O1	5040	0.56	0.53	0.89	0.63	0.50
SLFLEX SM P 036W 730 RV25ST N 16 GY C2 O1	5220	0.56	0.54	0.89	0.63	0.50
SLFLEX SM P 036W 740 RV25ST N 16 GY C2 O1	5470	0.56	0.54	0.89	0.63	0.50
SLFLEX SM P 036W 722 RU20ST N 16 WA C2 O1	4500	0.56	0.54	0.89	0.63	0.50
SLFLEX SM P 036W 727 RU20ST N 16 WA C2 O1	5040	0.56	0.54	0.89	0.63	0.50
SLFLEX SM P 036W 740 RU20ST N 16 WA C2 O1	5470	0.56	0.54	0.89	0.63	0.50
SLFLEX SM P 036W 730 RU30ST N 16 WA C2 O1	5220	0.56	0.54	0.89	0.63	0.50
SLFLEX SM P 036W 740 RU30ST N 16 WA C2 O1	5470	0.56	0.54	0.89	0.63	0.50
SLFLEX SM P 036W 730 RV35ST N 16 GY C2 O1	5220	0.56	0.54	0.89	0.63	0.50
SLFLEX SM P 052W 730 RV25ST N 24 GY C2 O1	7644	0.59	0.56	0.89	0.90	0.53
SLFLEX SM P 052W 740 RV25ST N 24 GY C2 O1	8060	0.59	0.56	0.89	0.90	0.53
SLFLEX SM P 052W 730 RU30ST N 24 WA C2 O1	7644	0.59	0.56	0.89	0.90	0.53
SLFLEX SM P 052W 740 RU30ST N 24 WA C2 O1	8060	0.59	0.56	0.89	0.90	0.53
SLFLEX MD P 070W 730 RV25ST N 36 GY C2 O1	10570	0.62	0.60	0.94	1.22	0.57
SLFLEX MD P 070W 740 RV25ST N 36 GY C2 O1	10990	0.62	0.60	0.94	1.22	0.57
SLFLEX MD P 070W 730 RU30ST N 36 GY C2 O1	10570	0.62	0.60	0.94	1.22	0.57
SLFLEX MD P 070W 740 RU30ST N 36 GY C2 O1	10990	0.62	0.60	0.94	1.22	0.57
SLFLEX MD P 070W 727 RV35ST N 36 WA C2 O1	10150	0.62	0.60	0.94	1.22	0.57
SLFLEX MD P 090W 730 RV25ST N 48 GY C2 O1	13500	0.69	0.67	0.94	1.57	0.65
SLFLEX MD P 090W 740 RV25ST N 48 GY C2 O1	13950	0.69	0.67	0.94	1.57	0.65
SLFLEX MD P 090W 730 RU30ST N 48 GY C2 O1	13500	0.69	0.67	0.94	1.57	0.65
SLFLEX MD P 090W 740 RU30ST N 48 GY C2 O1	13950	0.69	0.67	0.94	1.57	0.65
SLFLEX MD P 090W 740 PW45RST N 48 WA C2 O1	13950	0.69	0.67	0.94	1.57	0.65
SLFLEX MD P 090W 740 PW45LST N 48 WA C2 O1	13950	0.69	0.67	0.94	1.57	0.65
SLFLEX LA P 115W 730 RV25ST N 72 GY C2 O1	18170	1.00	1.00	1.00	2.00	1.00
SLFLEX LA P 115W 740 RV25ST N 72 GY C2 O1	18400	1.00	1.00	1.00	2.00	1.00
SLFLEX LA P 115W 730 RU30ST N 72 GY C2 O1	18170	1.00	1.00	1.00	2.00	1.00
SLFLEX LA P 115W 740 RU30ST N 72 GY C2 O1	18400	1.00	1.00	1.00	2.00	1.00
SLFLEX LA P 164W 727 RV35ST N 96 WA C2 O1	24600	1.02	1.01	1.00	2.85	1.02
SLFLEX SM P 020W 740 RV30ST T 08 GY C2 OD	2900	0.56	0.53	0.89	0.17	0.50
SLFLEX SM P 036W 740 RV15ST T 16 GY C2 OD	5470	0.56	0.54	0.89	0.31	0.50
SLFLEX SM P 036W 740 RV30ST T 16 GY C2 OD	5470	0.56	0.54	0.89	0.31	0.50

Product Name	Useful output flux [lm]	Manu- factur- ing	Distribu- tion	Install- ation	Use	EoL
SLFLEX SM P 036W 740 RU20ST T 16 GY C2 OD	5470	0.56	0.54	0.89	0.31	0.50
SLFLEX SM P 052W 740 RV25ST T 24 GY C2 OD	8060	0.59	0.56	0.89	0.45	0.53
SLFLEX SM P 052W 740 RV15ST T 24 GY C2 OD	8060	0.59	0.56	0.89	0.45	0.53
SLFLEX MD P 070W 740 RV25ST T 36 GY C2 OD	10990	0.62	0.60	0.94	0.61	0.57
SLFLEX MD P 070W 740 RV15ST T 36 GY C2 OD	10990	0.62	0.60	0.94	0.61	0.57
SLFLEX MD P 070W 740 RV30ST T 36 GY C2 OD	10990	0.62	0.60	0.94	0.61	0.57
SLFLEX MD P 070W 740 RU20ST T 36 GY C2 OD	10990	0.62	0.60	0.94	0.61	0.57
SLFLEX MD P 070W 740 RU30ST T 36 GY C2 OD	10990	0.62	0.60	0.94	0.61	0.57
SLFLEX MD P 070W 740 RV35ST T 36 GY C2 OD	10990	0.62	0.60	0.94	0.61	0.57
SLFLEX MD P 090W 740 RV15ST T 48 GY C2 OD	13950	0.69	0.67	0.94	0.78	0.65
SLFLEX MD P 090W 740 RV30ST T 48 GY C2 OD	13950	0.69	0.67	0.94	0.78	0.65
SLFLEX MD P 090W 740 RU20ST T 48 GY C2 OD	13950	0.69	0.67	0.94	0.78	0.65
SLFLEX LA P 115W 740 RV15ST T 72 GY C2 OD	18400	1.00	1.00	1.00	1.00	1.00
SLFLEX LA P 164W 740 RV15ST T 96 GY C2 OD	26568	1.02	1.01	1.00	1.43	1.02
SLFLEX LA P 164W 740 RU20ST T 96 GY C2 OD	26568	1.02	1.01	1.00	1.43	1.02
SLFLEX LA P 164W 740 RU30ST T 96 GY C2 OD	26568	1.02	1.01	1.00	1.43	1.02
SLFLEX LA P 164W 740 RV35ST T 96 GY C2 OD	26568	1.02	1.01	1.00	1.43	1.02
SLFLEX SM P 020W 740 RU20ST 2 08 WA C2 OD	2900	0.56	0.53	0.89	0.17	0.50
SLFLEX SM P 036W 740 RU20ST 2 16 WA C2 OD	5470	0.56	0.54	0.89	0.31	0.50
SLFLEX SM P 052W 740 RU20ST 2 24 WA C2 OD	8060	0.59	0.56	0.89	0.45	0.53
SLFLEX MD P 070W 740 RV30ST 2 36 WA C2 OD	10990	0.62	0.60	0.94	0.61	0.57
SLFLEX MD P 090W 740 RV30ST 2 48 WA C2 OD	13950	0.69	0.67	0.94	0.78	0.65
SLFLEX MD P 090W 757 PW45RST 2 48 WA C2 OD	13950	0.69	0.67	0.94	0.78	0.65
SLFLEX LA P 115W 740 RV25ST 2 72 WA C2 OD	18400	1.00	1.00	1.00	1.00	1.00
SLFLEX LA P 164W 740 RV35ST 2 96 WA C2 OD	26568	1.02	1.01	1.00	1.43	1.02