



LEDVANCE

ENVIRONMENTAL PRODUCT DECLARATION

Independent verification of the declaration and
data in compliance with ISO 14025: 2006

LEDVANCE FLOODLIGHT GEN 4 LP (SENSOR) Reference product: FL 50 SN P 41W 6KLM 840 PS SY100 BK



Registration number	LEDV-00031-V01.01-EN	Drafting rules	PEP-PCR-ED4-EN-2021 09 06
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EPD prepared by	LEDVANCE GmbH		
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 cannot be compared with elements from another 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 under study is "FL 50 SN P 41W 6KLM 840 PS SY100 BK" with the following product description:

Product benefits

- Demand optimized illumination due to flexible and programmable sensor
- Easy adjustment of sensor range, daylight detection, hold time and dimming function
- Always-on override, activated via special mains switching pattern
- Breather membrane to optimize air exchange, without compromising IP protection
- Highly versatile due to selectable power steps (Multi Lumen) on the housing
- Robust cable gland with integrated waterstop function
- Safe and very uniform illumination, due to frosted and tempered glass diffuser
- Bright, robust and durable
- Energy savings of up to 90 % compared to halogen lamp floodlights
- No upper light output ratio (ULOR 0%) when mounted at 0° tilt

Areas of application

- Replacement for floodlights with halogen lamps
- Outdoor use (IP65)
- D-sign according to EN 60598-2-24 for fire-risk commercial unit, e.g. by accumulation of dust
- Public areas, Building facades, Construction areas, Parking, Gardens and balconies

Product features

- Replacement for floodlights with halogen lamps
- Outdoor use (IP65)
- D-sign according to EN 60598-2-24 for fire-risk commercial unit, e.g. by accumulation of dust

Safety advice

- Max. wind load surface 0.027 m²

Reference Service Life

LEDVANCE declares for the luminaire following service lifetimes:

- Lifespan L70/B50 at 25 °C: 100,000 h
- Lifespan L80/B10 at 25 °C: 75,000 h
- Lifespan L90/B10 at 25 °C: 35,000 h

The key information about the product is summarized in the following table.

Table 1: Key technological data

Information	
Type of luminaire	Flood light
Short Text Product	FL 50 SN P 41W 6KLM 840 PS SY100 BK
Operating mode	Integrated LED driver
Lamp type	Integrated LED not exchangeable
Colour temperature	4000 K
Nominal wattage	41 W
Luminous flux	6,000 lm
Colour rendering index Ra	80
Protection class IK	IK05
Type of protection	IP65
Nominal voltage	220...240 V
Nominal lifetime (L70/B50)	100,000 h
Length	201 mm
Height	219 mm
Width	57 mm
Type of Sensor	Motion, Light
Area of Application	Urban; Zone, open Space; Sport

Based on the assigned lifetime according EN 15193-1:2017:

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

Type of building	Annual operating hours by default [h]	Operational lifetime [years]
Urban; Zone, open Space; Sport	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*	0.058 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)	FLOODLIGHT GEN 4 LP (SENSOR)

* 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:

$$\frac{1,000}{6,000} \times \frac{35,000}{100,000} = 0.058$$

1.4 Homogeneous environmental family

The reference product represents the FLOODLIGHT GEN 4 LP (SENSOR) family, which differs in terms of power (W), useful output flux (lm) of the integrated LED installed in the luminaires, colour temperature, sensor, weight, and dimensions.

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	41	8	41
Useful Output Flux	lm	6,000	1,100	6,000
Colour Temperature	K	4,000	3,000	6,500
Weight (Product)	kg	0.890	0.437	0.890
Length	mm	201	136	201
Height	mm	219	127	219
Width	mm	57	36	57

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 FLOODLIGHT GEN 4 LP (SENSOR) 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	1.089	100
Product	0.890	81.7
Packaging	0.199	18.3

2.2 Product

Table 6: Material composition – product

Information	Weight [kg]	Sum of weight [kg]	Share [%]
TOTAL		0.890	100
Metals		0.338	38.0
- Aluminium	0.107		12.1
- Recycled Aluminium*	0.211		23.7
- Steel	0.020		2.2
Plastics		0.078	8.8
- Polycarbonate (PC)	0.040		4.5
- ABS	0.023		2.6
- Silicone Adhesive	0.012		1.3
- PET	0.002		0.3
- Silicone Rubber	<0.001		<0.1
Others		0.474	53.2
- Glass	0.266		29.9
- Electronics	0.113		12.7
- Internal & External Wires	0.095		10.6

* 100% Recycled Aluminium (ADC12) certified by SCS

2.3 Packaging

Table 7: Material composition - packaging

Information	Weight [kg]	Share [%]
TOTAL	0.199	100
Paper/cardboard	0.198	99.9
Plastics	<0.001	<0.1

Secondary packaging with cardboard is used for shipping. In addition, 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 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 contains a component associated with light management function, a motion and light sensor. Therefore, the total energy consumption in B6 is calculated with an energy saving coefficient of 0.55 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	0.041
- Share of metals	%	38.0
- Share of plastics	%	8.5
- Share of others	%	53.4
Total weight going into incineration with energy recovery	kg/functional unit	0.016
- Share of paper	%	74.5
- Share of others	%	25.5

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	GaBi / LCA for experts 10
Used LCI database	GaBi Professional 2023.2 + Electronics Extension 2023.2
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.]	4.33E+01	4.69E-01	3.75E-03	1.83E-03	1.65E-02	9.06E-03	4.28E+01	3.56E-03	1.93E-02	2.66E-03	-1.64E-01
GWP - fossil [kg CO ₂ eq.]	4.30E+01	4.72E-01	3.71E-03	1.70E-02	1.64E-02	5.22E-03	4.24E+01	3.52E-03	1.93E-02	2.66E-03	-1.78E-01
GWP - biogenic [kg CO ₂ eq.]	3.54E-01	-3.80E-03	8.50E-06	-1.52E-02	2.12E-05	3.82E-03	3.69E-01	8.07E-06	1.58E-05	-5.62E-06	1.40E-02
GWP - luluc [kg CO ₂ eq.]	5.04E-03	2.44E-04	3.48E-05	5.51E-05	4.06E-05	1.68E-05	4.61E-03	3.30E-05	7.90E-07	7.78E-07	-9.42E-05
ODP [kg CFC-11 eq.]	7.85E-10	1.78E-12	4.89E-16	5.08E-14	1.40E-15	9.91E-15	7.83E-10	4.64E-16	3.42E-14	2.48E-15	-2.55E-13
AP [Mole of H ⁺ eq.]	9.45E-02	3.46E-03	6.02E-06	5.24E-05	2.86E-04	9.63E-06	9.06E-02	5.72E-06	1.09E-05	3.41E-06	-1.78E-03
EP - freshwater [kg P eq.]	1.61E-04	1.97E-06	1.37E-08	3.08E-07	1.87E-08	1.57E-07	1.58E-04	1.30E-08	8.70E-09	1.12E-09	-3.22E-07
EP - marine [kg N eq.]	2.23E-02	4.40E-04	2.33E-06	2.01E-05	1.03E-04	4.45E-06	2.17E-02	2.21E-06	4.03E-06	1.24E-06	-1.51E-04
EP - terrestrial [Mole of N eq.]	2.33E-01	4.79E-03	2.67E-05	1.99E-04	1.13E-03	4.05E-05	2.27E-01	2.54E-05	4.96E-05	1.43E-05	-1.64E-03
POCP [kg NMVOC eq.]	5.96E-02	1.36E-03	5.35E-06	5.10E-05	2.82E-04	9.31E-06	5.78E-02	5.08E-06	1.06E-05	3.38E-06	-4.96E-04
ADPE [kg Sb eq.]	5.48E-05	4.82E-05	2.49E-10	3.80E-09	4.00E-10	2.28E-09	6.56E-06	2.37E-10	2.63E-10	1.74E-11	-2.05E-05
ADPF [MJ]	9.00E+02	6.08E+00	5.12E-02	2.11E-01	2.08E-01	7.33E-02	8.93E+02	4.86E-02	5.84E-02	5.30E-03	-2.40E+00
WDP [m ³ world equiv.]	9.58E+00	1.04E-01	4.54E-05	1.17E-02	7.30E-05	3.26E-04	9.46E+00	4.31E-05	3.17E-03	5.62E-04	-2.53E-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]	5.34E+02
Renewable primary energy (raw material)	PERM [MJ]	2.09E-01
Total use of renewable primary energy	PERT [MJ]	5.35E+02
Non-renewable primary energy (without raw material)	PENRE [MJ]	8.97E+02
Non-renewable primary energy (raw material)	PENRM [MJ]	1.24E-01
Total use of non-renewable primary energy	PENRT [MJ]	8.98E+02
Use of secondary materials	SM [kg]	4.32E-02
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]	9.55E+00
Hazardous waste disposed	HWD [kg]	-2.97E-09
Non-hazardous waste disposed	NHWD [kg]	6.87E-01
Radioactive waste disposed	RWD [kg]	1.42E-01
Components for reuse	CRU [kg]	0.00E+00
Materials for recycling	MFR [kg]	2.97E-02
Materials for energy recovery	MER [kg]	9.50E-03
Exported electricity	EEE [MJ]	3.42E-02
Exported thermal energy	EET [MJ]	7.44E-02
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]	4.98E-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.]	7.43E+02	8.04E+00	6.43E-02	3.14E-02	2.83E-01	1.55E-01	7.34E+02	6.11E-02	3.31E-01	4.55E-02	-2.82E+00
GWP - fossil [kg CO2 eq.]	7.37E+02	8.10E+00	6.35E-02	2.91E-01	2.82E-01	8.95E-02	7.27E+02	6.04E-02	3.31E-01	4.56E-02	-3.05E+00
GWP - biogenic [kg CO2 eq.]	6.06E+00	-6.52E-02	1.46E-04	-2.61E-01	3.64E-04	6.55E-02	6.32E+00	1.38E-04	2.72E-04	-9.63E-05	2.40E-01
GWP - luluc [kg CO2 eq.]	8.64E-02	4.18E-03	5.96E-04	9.44E-04	6.97E-04	2.88E-04	7.91E-02	5.67E-04	1.35E-05	1.33E-05	-1.62E-03
ODP [kg CFC-11 eq.]	1.35E-08	3.05E-11	8.38E-15	8.70E-13	2.40E-14	1.70E-13	1.34E-08	7.96E-15	5.86E-13	4.25E-14	-4.38E-12
AP [Mole of H+ eq.]	1.62E+00	5.94E-02	1.03E-04	8.98E-04	4.91E-03	1.65E-04	1.55E+00	9.81E-05	1.87E-04	5.84E-05	-3.05E-02
EP - freshwater [kg P eq.]	2.76E-03	3.38E-05	2.35E-07	5.28E-06	3.21E-07	2.69E-06	2.71E-03	2.24E-07	1.49E-07	1.92E-08	-5.51E-06
EP - marine [kg N eq.]	3.82E-01	7.55E-03	3.99E-05	3.44E-04	1.76E-03	7.62E-05	3.72E-01	3.79E-05	6.92E-05	2.12E-05	-2.60E-03
EP - terrestrial [Mole of N eq.]	3.99E+00	8.21E-02	4.58E-04	3.41E-03	1.93E-02	6.95E-04	3.88E+00	4.35E-04	8.51E-04	2.45E-04	-2.80E-02
POCP [kg NMVOC eq.]	1.02E+00	2.33E-02	9.17E-05	8.74E-04	4.83E-03	1.60E-04	9.92E-01	8.71E-05	1.81E-04	5.79E-05	-8.49E-03
ADPE [kg Sb eq.]	9.40E-04	8.27E-04	4.27E-09	6.52E-08	6.86E-09	3.91E-08	1.13E-04	4.06E-09	4.51E-09	2.99E-10	-3.52E-04
ADPF [MJ]	1.54E+04	1.04E+02	8.77E-01	3.62E+00	3.56E+00	1.26E+00	1.53E+04	8.33E-01	1.00E+00	9.08E-02	-4.11E+01
WDP [m³ world equiv.]	1.64E+02	1.79E+00	7.78E-04	2.01E-01	1.25E-03	5.59E-03	1.62E+02	7.39E-04	5.43E-02	9.63E-03	-4.33E-01

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]	9.16E+03
Renewable primary energy (raw material)	PERM [MJ]	3.58E+00
Total use of renewable primary energy	PERT [MJ]	9.16E+03
Non-renewable primary energy (without raw material)	PENRE [MJ]	1.54E+04
Non-renewable primary energy (raw material)	PENRM [MJ]	2.13E+00
Total use of non-renewable primary energy	PENRT [MJ]	1.54E+04
Use of secondary materials	SM [kg]	7.41E-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 [m ³]	1.64E+02
Hazardous waste disposed	HWD [kg]	-5.09E-08
Non-hazardous waste disposed	NHWD [kg]	1.18E+01
Radioactive waste disposed	RWD [kg]	2.43E+00
Components for reuse	CRU [kg]	0.00E+00
Materials for recycling	MFR [kg]	5.10E-01
Materials for energy recovery	MER [kg]	1.63E-01
Exported electricity	EEE [MJ]	5.86E-01
Exported thermal energy	EET [MJ]	1.27E+00
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]	8.54E-02

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 (FL 50 SN P 41W 6KLM 840 PS SY100 BK)
Lighting output [lm]	6,000
Weight of light source [kg]	0.027
Weight of luminaire structure [kg]	0.742
Weight of control gear [kg]	0.079
Weight of light management system [kg]	0.042
Weight of packaging [kg]	0.199
Power [W]	41
Length [mm]	201
Height [mm]	219
Width [mm]	57

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 has a photocell, which is a light sensor, the energy saving coefficient is hence 0.75, and the same rule applies to other products with a photocell within the product family.
- The rest of the products that do not have any light management functions are assigned with an energy saving coefficient of 1.0.

Table 17: Calculated Extrapolation coefficients per product

Product Name	Useful output flux [lm]	Manufacturing	Distribution	Installation	Use	EoL
FL 50 SN P 41W 6KLM 840 PS SY100 BK	6,000	1.00	1.00	1.00	1.00	1.00
FL 10 P 8W 1K2LM 830 PS SY100 BK	1,100	0.53	0.50	0.56	0.35	0.49
FL 10 P 8W 1K2LM 830 PS SY100 WT	1,100	0.53	0.50	0.56	0.35	0.49
FL 10 P 8W 1K2LM 840 PS SY100 BK	1,200	0.53	0.50	0.56	0.35	0.49
FL 10 P 8W 1K2LM 840 PS SY100 WT	1,200	0.53	0.50	0.56	0.35	0.49
FL 10 P 8W 1K2LM 865 PS SY100 BK	1,200	0.53	0.50	0.56	0.35	0.49
FL 10 P 8W 1K2LM 865 PS SY100 WT	1,200	0.53	0.50	0.56	0.35	0.49
FL 20 P 17W 2K4LM 830 PS SY100 BK	2,200	0.63	0.61	0.65	0.75	0.60
FL 20 P 17W 2K4LM 830 PS SY100 WT	2,200	0.63	0.61	0.65	0.75	0.60
FL 20 P 17W 2K4LM 840 PS SY100 BK	2,400	0.63	0.61	0.65	0.75	0.60
FL 20 P 17W 2K4LM 840 PS SY100 WT	2,400	0.63	0.61	0.65	0.75	0.60
FL 20 P 17W 2K4LM 865 PS SY100 BK	2,400	0.63	0.61	0.65	0.75	0.60
FL 20 P 17W 2K4LM 865 PS SY100 WT	2,400	0.63	0.61	0.65	0.75	0.60
FL 50 P 41W 6KLM 830 PS SY100 BK	5,500	0.74	0.70	0.87	1.82	0.66
FL 50 P 41W 6KLM 830 PS SY100 WT	5,500	0.74	0.70	0.87	1.82	0.66
FL 50 P 41W 6KLM 840 PS SY100 BK	6,000	0.74	0.70	0.87	1.82	0.66
FL 50 P 41W 6KLM 840 PS SY100 WT	6,000	0.74	0.70	0.87	1.82	0.66
FL 50 P 41W 6KLM 865 PS SY100 BK	6,000	0.74	0.70	0.87	1.82	0.66
FL 50 P 41W 6KLM 865 PS SY100 WT	6,000	0.74	0.70	0.87	1.82	0.66
FL 10 SN P 8W 1K2LM 830 PS SY100 WT	1,100	0.59	0.57	0.69	0.20	0.54
FL 10 SN P 8W 1K2LM 830 PS SY100 BK	1,100	0.59	0.57	0.69	0.20	0.54
FL 10 SN P 8W 1K2LM 840 PS SY100 WT	1,200	0.59	0.57	0.69	0.20	0.54
FL 10 SN P 8W 1K2LM 840 PS SY100 BK	1,200	0.59	0.57	0.69	0.20	0.54
FL 20 SN P 17W 2K4LM 830 PS SY100 WT	2,200	0.68	0.66	0.77	0.41	0.64
FL 20 SN P 17W 2K4LM 830 PS SY100 BK	2,200	0.68	0.66	0.77	0.41	0.64
FL 20 SN P 17W 2K4LM 840 PS SY100 WT	2,400	0.68	0.66	0.77	0.41	0.64
FL 20 SN P 17W 2K4LM 840 PS SY100 BK	2,400	0.68	0.66	0.77	0.41	0.64
FL 50 SN P 41W 6KLM 830 PS SY100 WT	5,500	1.00	1.00	1.00	1.00	1.00
FL 50 SN P 41W 6KLM 830 PS SY100 BK	5,500	1.00	1.00	1.00	1.00	1.00
FL 50 SN P 41W 6KLM 840 PS SY100 WT	6,000	1.00	1.00	1.00	1.00	1.00