

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO21930

StoreSet Evo

SM515T

Signify N.V.



EPD HUB
Publishing 20-09-2023

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Signify N.V
Address	Signify High Tech Campus 48 5656 AE Eindhoven The Netherlands
Contact details	sustainability@signify.com
Website	https://www.signify.com/global

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804+A2:2019 and ISO 14025
PCR	EPD Hub Core PCR version 1.0, 1 Feb 2022
Sector	Lighting
Category of EPD	Pre-verified EPD
Scope of the EPD	Cradle to gate with options and end of life
EPD author	Sustainability Signify
EPD verification	Independent verification of this EPD and data, according to ISO 14025: <input type="checkbox"/> Internal certification

The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of Lighting Products may not be

comparable if they do not comply with EN 15804 and if they are not compared in a lighting context.

PRODUCT

Product name	StoreSet Evo
Additional labels	SM515T 80S/840 DIA-VLC WB BK
Product reference	910505102708
Place of production	Hungary, Europe
Period for data	2023
Averaging in EPD	No
Variation in GWP-fossil for A1-A3	N.A.

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 unit
Declared unit mass	2.32 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	2.65E1
GWP-total, A1-A3 (kgCO ₂ e)	2.62E1
Secondary material, inputs (%)	20.0
Secondary material, outputs (%)	45.6
Total energy use, A1-A3 (kWh)	104.0
Total water use, A1-A3 (m ³ e)	2.92E-1

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Signify is the world leader in lighting for professionals, consumers and lighting for the Internet of Things. Our energy efficient lighting products, systems and services enable our customers to enjoy a superior quality of light, and make people's lives safer and more comfortable, businesses more productive and cities more liveable.

PRODUCT DESCRIPTION

StoreSet Evo is a product family of track-, trunking- and recessed- mounted non-linear panel for general and aisle lighting in retail applications. It has been developed to create contrastful ambience with glare-free eye comfort for the shoppers in retail.

Further information can be found at:

https://www.lighting.philips.com/prof/indoor-luminaires/surface-mounted/storeset-evo/LP_CF_SM515T_EU/family

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass- %	Material origin
Metals	54.119	EUR, ASIA
Minerals	0.006	EUR, ASIA
Fossil materials	45.875	EUR, ASIA
Bio-based materials	0	Not Applicable

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0
Biogenic carbon content in packaging, kg C	0.13054314

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 unit
Mass per declared unit	2.32 kg
Functional unit	8000 lumens over 50,000 hours
Reference service life	50,000 hr

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D		
x	x	x	x	x	MNR	MNR	MNR	MNR	MNR	x	MNR	MNR	x	x	x	x		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstr./demol.	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = MNR. Modules not relevant = MNR.

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, electricity, and waste formed in the production processes at Signify’s manufacturing facilities are included in this stage.

The product is made of metals, plastics, and electronic components. All components are transported to Signify’s production facility, where the main manufacturing processes primarily are associated with assembly. The finished product is packaged with polyethylene, cardboard, and/or paper as packaging material before being sent to customers.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation distance is defined according to the PCR. The average distance of transportation from suppliers in Europe to manufacturing sites in Europe and from suppliers in Asia to manufacturing sites in Asia was assumed to be 2000 km by lorry. In the case of intercontinental

transportation, a conservative average distance of 20000 km by a container ship (sea) was assumed. The same applies to distances from manufacturing sites to customers. Environmental impacts from installation include waste packaging materials (A5). The impacts of energy consumption and the used ancillary materials during installation are considered negligible.

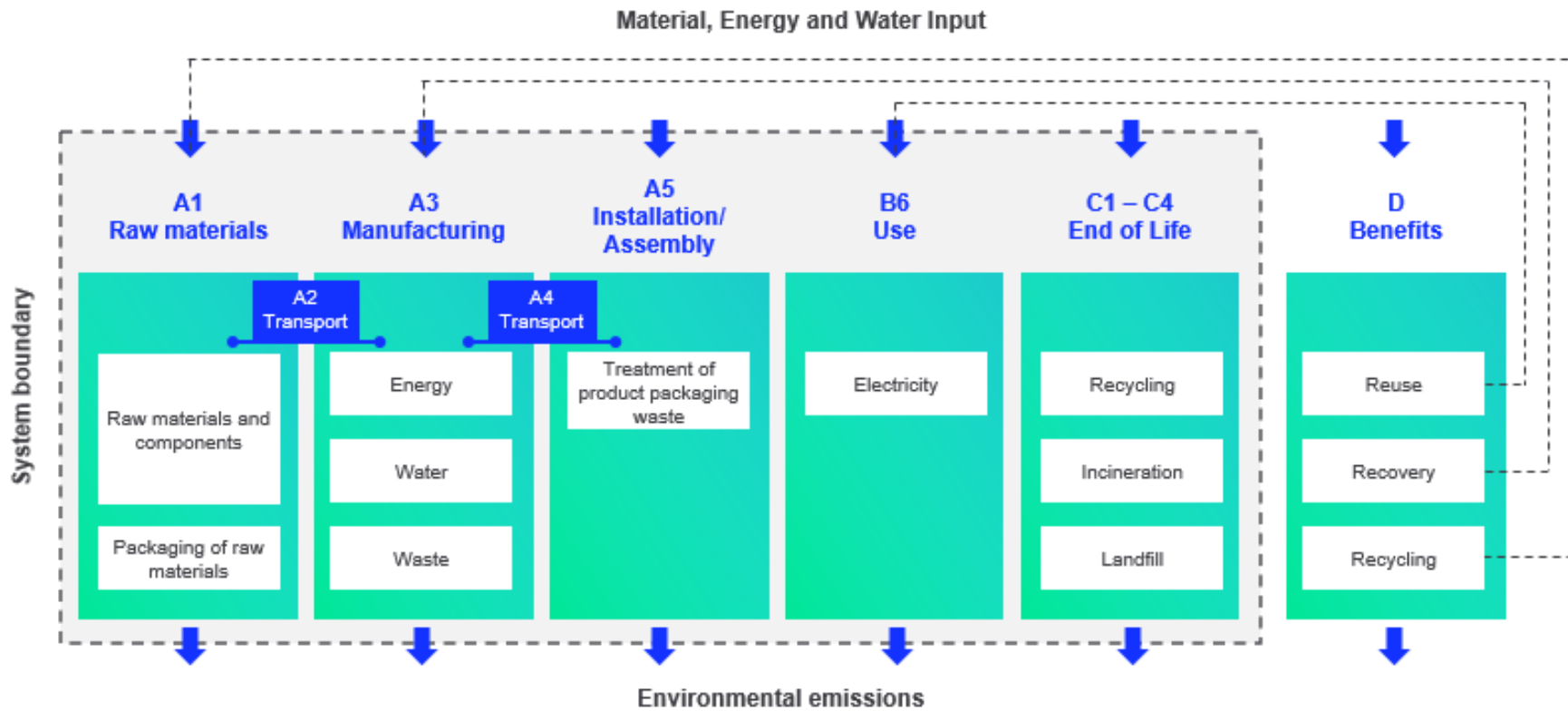
PRODUCT USE AND MAINTENANCE (B1-B7)

During the use phase, the product consumes electricity from Europe’s electricity grid mix (B6). Impacts due to electricity production include direct emissions to air, transformation, and transmission losses. The non-functional parts that are replaced are disposed and sent to waste treatment in the same module. Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

Consumption of energy and natural resources in demolition process is assumed to be negligible. It is assumed that the waste is collected separately and transported to the waste treatment centre. Transportation distance to treatment is assumed as 150 km and the transportation method is assumed to be lorry (C2). According to EN 50693:2019, the sequence of treatment operations occurring to the product shall include de-pollution, fractions separation and preparation (dismantling, crushing, shredding, sorting), recycling, other material recovery, energy recovery and disposal. In this study, the default values from table G.4 of EN 50693 is used for treating materials in different waste treatment methods. Due to the material and energy recovery potential of parts in the lighting system, the end-of-life product is converted into recycled raw materials, while the energy recovered from incineration displaces electricity and heat production (D). The benefits and loads of incineration and recycling are included in Module D.

MANUFACTURING PROCESS



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, ancillary materials, energy & water consumption, material loss and waste generation at the manufacturing site are attributed to the bill of materials of the products, therefore, they are allocated by partitioning the quantities on the base of the total production in kg throughout the year. Thus, allocation has been done in the following ways:

Data type	Allocation
Raw materials	No Allocation
Packaging materials	No Allocation
Ancillary materials	Allocated by mass or volume
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

Type of average	No averaging
Averaging method	Not Applicable
Variation in GWP-fossil for A1-A3	Not Applicable

This EPD is product and factory specific and does not contain average calculations. It is created with a most conservative scenario in A1-A3 in terms of material composition.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. EcoInvent 3.8 database was used as the source of environmental data.

ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total ¹⁾	kg CO ₂ e	2,58E+01	4,94E-01	-7,22E-02	2,62E+01	4,97E-01	4,80E-01	MNR	MNR	MNR	MNR	MNR	1.15E3	MNR	0E0	2.05E-2	-3.9E-1	-1.17E0	-1.9E0
GWP – fossil	kg CO ₂ e	2,57E+01	4,94E-01	3,97E-01	2,66E+01	4,96E-01	8,52E-03	MNR	MNR	MNR	MNR	MNR	1.15E3	MNR	0E0	2.05E-2	2.37E-1	1.16E-1	-1.9E0
GWP – biogenic	kg CO ₂ e	4,03E-02	0,00E+00	-4,71E-01	-4,31E-01	1,92E-04	4,71E-01	MNR	MNR	MNR	MNR	MNR	0E0	MNR	0E0	0E0	-6.27E-1	-1.29E0	-3.04E-3
GWP – LULUC	kg CO ₂ e	4,23E-02	2,21E-04	2,26E-03	4,48E-02	1,83E-04	8,51E-06	MNR	MNR	MNR	MNR	MNR	2.68E0	MNR	0E0	7.56E-6	3.78E-5	8.48E-6	-1.97E-3
Ozone depletion pot.	kg CFC ₁₁ e	1,74E-06	1,10E-07	4,60E-08	1,90E-06	1,14E-07	9,37E-10	MNR	MNR	MNR	MNR	MNR	5.82E-5	MNR	0E0	4.71E-9	3.15E-9	1.23E-9	-5.47E-8
Acidification potential	mol H ⁺ e	2,85E-01	5,11E-03	1,84E-03	2,92E-01	2,10E-03	6,05E-05	MNR	MNR	MNR	MNR	MNR	6.55E0	MNR	0E0	8.67E-5	3.34E-4	5.45E-5	-3.29E-2
EP-freshwater ²⁾	kg Pe	3,65E-03	3,55E-06	2,02E-05	3,67E-03	4,06E-06	2,35E-07	MNR	MNR	MNR	MNR	MNR	1.21E-1	MNR	0E0	1.68E-7	1.18E-6	1.52E-7	-1.32E-4
EP-marine	kg Ne	3,01E-02	1,34E-03	8,74E-04	3,23E-02	6,24E-04	2,29E-04	MNR	MNR	MNR	MNR	MNR	8.68E-1	MNR	0E0	2.58E-5	8.47E-5	2.2E-5	-2.39E-3
EP-terrestrial	mol Ne	6,84E-01	1,49E-02	5,37E-03	7,04E-01	6,89E-03	1,42E-04	MNR	MNR	MNR	MNR	MNR	9.88E0	MNR	0E0	2.84E-4	9.4E-4	2.22E-4	-3.06E-2
POCP (“smog”) ³⁾	kg NMVOCe	1,01E-01	4,18E-03	1,35E-03	1,07E-01	2,20E-03	1,13E-04	MNR	MNR	MNR	MNR	MNR	2.7E0	MNR	0E0	9.1E-5	2.53E-4	6.09E-5	-8.73E-3
ADP-minerals & metals ⁴⁾	kg Sbe	3,76E-03	1,06E-06	2,09E-06	3,76E-03	1,16E-06	8,17E-08	MNR	MNR	MNR	MNR	MNR	1.07E-2	MNR	0E0	4.8E-8	2.77E-6	3.16E-8	-8.73E-4
ADP-fossil resources	MJ	3,52E+02	7,16E+00	5,30E+00	3,64E+02	7,45E+00	1,03E-01	MNR	MNR	MNR	MNR	MNR	2.44E4	MNR	0E0	3.08E-1	3.44E-1	9.93E-2	-2.23E1
Water use ⁵⁾	m ³ e depr.	1,16E+01	3,00E-02	1,83E-01	1,18E+01	3,34E-02	1,42E-03	MNR	MNR	MNR	MNR	MNR	6.67E2	MNR	0E0	1.38E-3	1.42E-2	1.03E-2	-4.97E-1

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO₄e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	2,25E-06	4,79E-08	3,29E-08	2,33E-06	5,72E-08	2,19E-09	MNR	MNR	MNR	MNR	MNR	2.15E-5	MNR	0E0	2.36E-9	5.8E-9	8.47E-10	-2.13E-7
Ionizing radiation ⁶⁾	kBq U235e	2,51E+00	3,39E-02	1,57E-02	2,56E+00	3,55E-02	6,40E-04	MNR	MNR	MNR	MNR	MNR	6.6E2	MNR	0E0	1.47E-3	1.95E-3	4.24E-4	-1.5E-1
Ecotoxicity (freshwater)	CTUe	1,89E+03	6,08E+00	1,60E+01	1,91E+03	6,70E+00	1,55E+00	MNR	MNR	MNR	MNR	MNR	1.66E4	MNR	0E0	2.77E-1	2.01E0	8.85E-1	-2.24E2
Human toxicity, cancer	CTUh	6,21E-08	1,93E-10	2,65E-10	6,25E-08	1,65E-10	2,12E-11	MNR	MNR	MNR	MNR	MNR	5.43E-7	MNR	0E0	6.8E-12	7.73E-11	6.5E-10	-3.7E-9
Human tox. non-cancer	CTUh	1,68E-06	5,72E-09	4,96E-09	1,69E-06	6,64E-09	6,32E-10	MNR	MNR	MNR	MNR	MNR	1.79E-5	MNR	0E0	2.74E-10	2.54E-9	3.71E-8	-3.99E-7
SQP ⁷⁾	-	1,21E+02	6,88E+00	1,35E+01	1,41E+02	8,59E+00	1,29E-01	MNR	MNR	MNR	MNR	MNR	4.41E3	MNR	0E0	3.55E-1	6.22E-1	1.59E-1	-1.54E1

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	3,11E+01	7,47E-02	3,61E+00	3,48E+01	8,40E-02	6,23E-03	MNR	MNR	MNR	MNR	MNR	4.97E3	MNR	0E0	3.47E-3	4.73E-2	2.5E-3	-2.69E0
Renew. PER as material	MJ	0,00E+00	0,00E+00	4,13E+00	4,13E+00	0,00E+00	-4,13E+00	MNR	MNR	MNR	MNR	MNR	0E0	MNR	0E0	0E0	0E0	0E0	0E0
Total use of renew. PER	MJ	3,11E+01	7,47E-02	7,74E+00	3,89E+01	8,40E-02	-4,13E+00	MNR	MNR	MNR	MNR	MNR	4.97E3	MNR	0E0	3.47E-3	4.73E-2	2.5E-3	-2.69E0
Non-re. PER as energy	MJ	3,27E+02	7,16E+00	5,08E+00	3,39E+02	7,45E+00	1,03E-01	MNR	MNR	MNR	MNR	MNR	2.43E4	MNR	0E0	3.08E-1	3.44E-1	9.93E-2	-2.07E1
Non-re. PER as material	MJ	2,45E+01	0,00E+00	1,70E-01	2,47E+01	0,00E+00	-1,70E-01	MNR	MNR	MNR	MNR	MNR	0E0	MNR	0E0	0E0	-1.29E1	-1.13E1	2.17E0
Total use of non-re. PER	MJ	3,51E+02	7,16E+00	5,25E+00	3,64E+02	7,45E+00	-6,68E-02	MNR	MNR	MNR	MNR	MNR	2.43E4	MNR	0E0	3.08E-1	-1.25E1	-1.12E1	-1.85E1
Secondary materials	kg	4,64E-01	2,23E-03	3,16E-01	7,83E-01	2,07E-03	1,20E-04	MNR	MNR	MNR	MNR	MNR	2.51E0	MNR	0E0	8.54E-5	4.78E-4	5.42E-4	8.31E-2
Renew. secondary fuels	MJ	1,99E-02	1,79E-05	2,25E-02	4,24E-02	2,09E-05	9,41E-07	MNR	MNR	MNR	MNR	MNR	2.04E-2	MNR	0E0	8.62E-7	1.79E-5	1.83E-6	-1.5E-3
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MNR	MNR	MNR	MNR	MNR	0E0	MNR	0E0	0E0	0E0	0E0	0E0
Use of net fresh water	m ³	2,88E-01	8,39E-04	4,35E-03	2,93E-01	9,65E-04	6,63E-05	MNR	MNR	MNR	MNR	MNR	2.1E1	MNR	0E0	3.99E-5	4.6E-4	1.61E-4	-1.83E-2

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	3,74E+00	9,54E-03	2,00E-02	3,77E+00	9,88E-03	5,11E-04	MNR	MNR	MNR	MNR	MNR	8.76E1	MNR	0E0	4.08E-4	2.61E-3	3.15E-2	-1.52E-1
Non-hazardous waste	kg	5,95E+01	1,42E-01	3,83E-01	6,00E+01	1,62E-01	1,33E-01	MNR	MNR	MNR	MNR	MNR	5.54E3	MNR	0E0	6.7E-3	1.55E-1	3.65E-1	-1.06E1
Radioactive waste	kg	7,99E-04	4,84E-05	9,31E-06	8,57E-04	4,99E-05	2,37E-07	MNR	MNR	MNR	MNR	MNR	1.78E-1	MNR	0E0	2.06E-6	1.31E-6	0E0	-5.13E-5

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MNR	MNR	MNR	MNR	MNR	0E0	MNR	0E0	0E0	0E0	0E0	0E0
Materials for recycling	kg	2,32E+00	0,00E+00	3,27E-01	2,64E+00	0,00E+00	0,00E+00	MNR	MNR	MNR	MNR	MNR	0E0	MNR	0E0	0E0	9.71E-1	0E0	0E0
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MNR	MNR	MNR	MNR	MNR	0E0	MNR	0E0	0E0	0E0	0E0	0E0
Exported energy	MJ	0,00E+00	0,00E+00	1,15E-01	1,15E-01	0,00E+00	0,00E+00	MNR	MNR	MNR	MNR	MNR	0E0	MNR	3.08E0	0E0	0E0	0E0	0E0

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	2,51E+01	4,89E-01	4,12E-01	2,60E+01	4,91E-01	2,07E-01	MNR	MNR	MNR	MNR	MNR	1.13E3	MNR	0E0	2.03E-2	2.37E-1	1.15E-1	-1.85E0
Ozone depletion Pot.	kg CFC ₁₁ e	1,67E-06	8,73E-08	3,88E-08	1,80E-06	9,04E-08	7,55E-10	MNR	MNR	MNR	MNR	MNR	5.05E-5	MNR	0E0	3.73E-9	2.59E-9	1.01E-9	-4.52E-8
Acidification	kg SO ₂ e	2,14E-01	4,05E-03	1,34E-03	2,19E-01	1,63E-03	4,88E-05	MNR	MNR	MNR	MNR	MNR	5.55E0	MNR	0E0	6.74E-5	2.64E-4	4.02E-5	-2.87E-2
Eutrophication	kg PO ₄ ³ e	9,33E-02	6,00E-04	9,48E-04	9,48E-02	3,72E-04	4,33E-04	MNR	MNR	MNR	MNR	MNR	4.27E0	MNR	0E0	1.54E-5	1.44E-4	3.63E-4	-6.75E-3
POCP (“smog”)	kg C ₂ H ₄ e	1,13E-02	1,21E-04	9,82E-05	1,15E-02	6,37E-05	4,64E-05	MNR	MNR	MNR	MNR	MNR	2.27E-1	MNR	0E0	2.63E-6	1.06E-5	2.64E-6	-1.15E-3
ADP-elements	kg Sbe	3,73E-03	1,02E-06	1,78E-06	3,73E-03	1,13E-06	8,10E-08	MNR	MNR	MNR	MNR	MNR	1.07E-2	MNR	0E0	4.65E-8	2.76E-6	2.44E-8	-8.73E-4
ADP-fossil	MJ	3,48E+02	7,16E+00	5,26E+00	3,60E+02	7,45E+00	1,03E-01	MNR	MNR	MNR	MNR	MNR	2.43E4	MNR	0E0	3.08E-1	3.44E-1	9.93E-2	-2.22E1

APPENDIX (EPD HUB ALIGNED)

This section represents the scaling method for the **B6 module**, following the PEP EcoPassport PSR for luminaires (PSR-0014-ed2.0-EN-2023 07 13). The GWP results were scaled from a reference variant of a product family, based on various light management scenarios and power inputs of the luminaires within the same product family

To calculate the Scaled Impact (SI), we have followed the below methods:

1. Calculate the power scaling factor (PSF), which is the ratio of the power input of the variant in questions P_{in} and the power input of the base variant P_{base} .
2. Calculate the Total Scaling factor by multiplying the PSF by the control scaling factor (CSF), where the CSF is determined according the relevant control factor scenario (e.g. if the luminaire has a presence detection system). The presented controls factors values in Table A1 are based on BS EN 15193-1:2017. Please refer to this publication or contact Signify directly for more information.

Table A1 Light management functions (EPD Hub aligned)

Scenario	Abbrev.	CSF
No control	NC	1
Daylight dependency factor	DD	0.75
Presence sensing	PS	0.75
Daylight dependency and presence sensing	DD+PS	0.55

3. Lastly, the GWP of the base variant is then scaled by the TSF.

Table A2 Scaled GWP per scaling factor (EPD Hub aligned)

PFC	Lamp family	Module color	Driver type	Flux [lm]	Power [W]	Efficacy [lm/W]	PSF	Total Scaling Factor (TSF)				Scaled Impacts (GWP100 B6 - kg CO2eq.)			
								NC	DD	PS	DD+PS	NC	DD	PS	DD+PS
SM515T, SM515S, RC516B and RC517B	LED66S	830	PSU	6700	50	134	0.86	0.86	N/A	0.65	N/A	989.0	N/A	741.8	N/A
			DIA	6700	50	134	0.86	0.86	0.65	0.65	0.47	989.0	741.8	741.8	544.0
			WIA	6700	50	134	0.86	0.86	0.65	0.65	0.47	989.0	741.8	741.8	544.0
		830 HE	PSU	6600	43	153	0.74	0.74	N/A	0.56	N/A	851.0	N/A	638.3	N/A
			DIA	6600	43	153	0.74	0.74	0.56	0.56	0.41	851.0	638.3	638.3	468.1
			WIA	6600	43	153	0.74	0.74	0.56	0.56	0.41	851.0	638.3	638.3	468.1
		830 XA	PSU	6700	43	156	0.74	0.74	N/A	0.56	N/A	851.0	N/A	638.3	N/A
			DIA	6700	43	156	0.74	0.74	0.56	0.56	0.41	851.0	638.3	638.3	468.1
			WIA	6700	43	156	0.74	0.74	0.56	0.56	0.41	851.0	638.3	638.3	468.1
		835	PSU	6600	44	150	0.76	0.76	N/A	0.57	N/A	874.0	N/A	655.5	N/A
			DIA	6600	44	150	0.76	0.76	0.57	0.57	0.42	874.0	655.5	655.5	480.7
			WIA	6600	44	150	0.76	0.76	0.57	0.57	0.42	874.0	655.5	655.5	480.7
		840	PSU	6600	46	143	0.79	0.79	N/A	0.59	N/A	908.5	N/A	681.4	N/A
			DIA	6600	46	143	0.79	0.79	0.59	0.59	0.43	908.5	681.4	681.4	499.7
			WIA	6600	46	143	0.79	0.79	0.59	0.59	0.43	908.5	681.4	681.4	499.7
		840 HE	PSU	6700	41	163	0.71	0.71	N/A	0.53	N/A	816.5	N/A	612.4	N/A
			DIA	6700	41	163	0.71	0.71	0.53	0.53	0.39	816.5	612.4	612.4	449.1
			WIA	6700	41	163	0.71	0.71	0.53	0.53	0.39	816.5	612.4	612.4	449.1
		840 XA	PSU	6500	36	181	0.62	0.62	N/A	0.47	N/A	713.0	N/A	534.8	N/A
			DIA	6500	36	181	0.62	0.62	0.47	0.47	0.34	713.0	534.8	534.8	392.2
			WIA	6500	36	181	0.62	0.62	0.47	0.47	0.34	713.0	534.8	534.8	392.2
		930	PSU	6900	45	153	0.78	0.78	N/A	0.59	N/A	897.0	N/A	672.8	N/A
			DIA	6900	45	153	0.78	0.78	0.59	0.59	0.43	897.0	672.8	672.8	493.4
			WIA	6900	45	153	0.78	0.78	0.59	0.59	0.43	897.0	672.8	672.8	493.4
	940	PSU	6900	44	157	0.76	0.76	N/A	0.57	N/A	874.0	N/A	655.5	N/A	
		DIA	6900	44	157	0.76	0.76	0.57	0.57	0.42	874.0	655.5	655.5	480.7	
		WIA	6900	44	157	0.76	0.76	0.57	0.57	0.42	874.0	655.5	655.5	480.7	
	PW930	PSU	7100	48	148	0.83	0.83	N/A	0.62	N/A	954.5	N/A	715.9	N/A	
		DIA	7100	48	148	0.83	0.83	0.62	0.62	0.46	954.5	715.9	715.9	525.0	
		WIA	7100	48	148	0.83	0.83	0.62	0.62	0.46	954.5	715.9	715.9	525.0	
	PW935	PSU	6800	44	155	0.76	0.76	N/A	0.57	N/A	874.0	N/A	655.5	N/A	
		DIA	6800	44	155	0.76	0.76	0.57	0.57	0.42	874.0	655.5	655.5	480.7	
		WIA	6800	44	155	0.76	0.76	0.57	0.57	0.42	874.0	655.5	655.5	480.7	
LED80S	830	PSU	8100	64	127	1.1	1.10	N/A	0.83	N/A	1265.0	N/A	948.8	N/A	
		DIA	8100	64	127	1.1	1.10	0.83	0.83	0.61	1265.0	948.8	948.8	695.8	
		WIA	8100	64	127	1.1	1.10	0.83	0.83	0.61	1265.0	948.8	948.8	695.8	
	830 HE	PSU	8000	52	154	0.9	0.90	N/A	0.68	N/A	1035.0	N/A	776.3	N/A	

		830 XA	DIA	8000	52	154	0.9	0.90	0.68	0.68	0.50	1035.0	776.3	776.3	569.3
			WIA	8000	52	154	0.9	0.90	0.68	0.68	0.50	1035.0	776.3	776.3	569.3
			PSU	8000	48	167	0.83	0.83	N/A	0.62	N/A	954.5	N/A	715.9	N/A
			DIA	8000	48	167	0.83	0.83	0.62	0.62	0.46	954.5	715.9	715.9	525.0
			WIA	8000	48	167	0.83	0.83	0.62	0.62	0.46	954.5	715.9	715.9	525.0
			PSU	8200	56	146	0.97	0.97	N/A	0.73	0.73	N/A	1115.5	N/A	836.6
		835	DIA	8200	56	146	0.97	0.97	0.73	0.73	0.53	1115.5	836.6	836.6	613.5
			WIA	8200	56	146	0.97	0.97	0.73	0.73	0.53	1115.5	836.6	836.6	613.5
		840	PSU	8100	58	140	1	1.00	N/A	0.75	N/A	1150.0	N/A	862.5	N/A
			DIA	8100	58	140	1	1.00	0.75	0.75	0.55	1150.0	862.5	862.5	632.5
			WIA	8100	58	140	1	1.00	0.75	0.75	0.55	1150.0	862.5	862.5	632.5
		840 HE	PSU	8000	50	160	0.86	0.86	N/A	0.65	N/A	989.0	N/A	741.8	N/A
			DIA	8000	50	160	0.86	0.86	0.65	0.65	0.47	989.0	741.8	741.8	544.0
			WIA	8000	50	160	0.86	0.86	0.65	0.65	0.47	989.0	741.8	741.8	544.0
		840 XA	PSU	8000	45	178	0.78	0.78	N/A	0.59	N/A	897.0	N/A	672.8	N/A
			DIA	8000	45	178	0.78	0.78	0.59	0.59	0.43	897.0	672.8	672.8	493.4
			WIA	8000	45	178	0.78	0.78	0.59	0.59	0.43	897.0	672.8	672.8	493.4
		930	PSU	8400	57	147	0.98	0.98	N/A	0.74	N/A	1127.0	N/A	845.3	N/A
			DIA	8400	57	147	0.98	0.98	0.74	0.74	0.54	1127.0	845.3	845.3	619.9
			WIA	8400	57	147	0.98	0.98	0.74	0.74	0.54	1127.0	845.3	845.3	619.9
		940	PSU	8300	53	157	0.91	0.91	N/A	0.68	N/A	1046.5	N/A	784.9	N/A
			DIA	8300	53	157	0.91	0.91	0.68	0.68	0.50	1046.5	784.9	784.9	575.6
			WIA	8300	53	157	0.91	0.91	0.68	0.68	0.50	1046.5	784.9	784.9	575.6
		PW930	PSU	8100	55	147	0.95	0.95	N/A	0.71	N/A	1092.5	N/A	819.4	N/A
			DIA	8100	55	147	0.95	0.95	0.71	0.71	0.52	1092.5	819.4	819.4	600.9
			WIA	8100	55	147	0.95	0.95	0.71	0.71	0.52	1092.5	819.4	819.4	600.9
		PW935	PSU	8000	53	151	0.91	0.91	N/A	0.68	N/A	1046.5	N/A	784.9	N/A
			DIA	8000	53	151	0.91	0.91	0.68	0.68	0.50	1046.5	784.9	784.9	575.6
			WIA	8000	53	151	0.91	0.91	0.68	0.68	0.50	1046.5	784.9	784.9	575.6
		830	PSU	9200	74	124	1.28	1.28	N/A	0.96	N/A	1472.0	N/A	1104.0	N/A
			DIA	9200	74	124	1.28	1.28	0.96	0.96	0.70	1472.0	1104.0	1104.0	809.6
			WIA	9200	74	124	1.28	1.28	0.96	0.96	0.70	1472.0	1104.0	1104.0	809.6
		830 HE	PSU	8900	59	151	1.02	1.02	N/A	0.77	N/A	1173.0	N/A	879.8	N/A
			DIA	8900	59	151	1.02	1.02	0.77	0.77	0.56	1173.0	879.8	879.8	645.2
			WIA	8900	59	151	1.02	1.02	0.77	0.77	0.56	1173.0	879.8	879.8	645.2
		830 XA	PSU	9100	53	172	0.91	0.91	N/A	0.68	N/A	1046.5	N/A	784.9	N/A
DIA	9100		53	172	0.91	0.91	0.68	0.68	0.50	1046.5	784.9	784.9	575.6		
WIA	9100		53	172	0.91	0.91	0.68	0.68	0.50	1046.5	784.9	784.9	575.6		
835	PSU	9000	63	143	1.09	1.09	N/A	0.82	N/A	1253.5	N/A	940.1	N/A		
	DIA	9000	63	143	1.09	1.09	0.82	0.82	0.60	1253.5	940.1	940.1	689.4		
	WIA	9000	63	143	1.09	1.09	0.82	0.82	0.60	1253.5	940.1	940.1	689.4		

	840	PSU	9200	67	137	1.16	1.16	N/A	0.87	N/A	1334.0	N/A	1000.5	N/A	
		DIA	9200	67	137	1.16	1.16	0.87	0.87	0.64	1334.0	1000.5	1000.5	733.7	
		WIA	9200	67	137	1.16	1.16	0.87	0.87	0.64	1334.0	1000.5	1000.5	733.7	
		840 HE	PSU	9000	56	161	0.97	0.97	N/A	0.73	N/A	1115.5	N/A	836.6	N/A
			DIA	9000	56	161	0.97	0.97	0.73	0.73	0.53	1115.5	836.6	836.6	613.5
			WIA	9000	56	161	0.97	0.97	0.73	0.73	0.53	1115.5	836.6	836.6	613.5
		840 XA	PSU	9200	53	174	0.91	0.91	N/A	0.68	N/A	1046.5	N/A	784.9	N/A
			DIA	9200	53	174	0.91	0.91	0.68	0.68	0.50	1046.5	784.9	784.9	575.6
			WIA	9200	53	174	0.91	0.91	0.68	0.68	0.50	1046.5	784.9	784.9	575.6
	930	PSU	9500	65	146	1.12	1.12	N/A	0.84	N/A	1288.0	N/A	966.0	N/A	
		DIA	9500	65	146	1.12	1.12	0.84	0.84	0.62	1288.0	966.0	966.0	708.4	
		WIA	9500	65	146	1.12	1.12	0.84	0.84	0.62	1288.0	966.0	966.0	708.4	
	940	PSU	9400	61	154	1.05	1.05	N/A	0.79	N/A	1207.5	N/A	905.6	N/A	
		DIA	9400	61	154	1.05	1.05	0.79	0.79	0.58	1207.5	905.6	905.6	664.1	
		WIA	9400	61	154	1.05	1.05	0.79	0.79	0.58	1207.5	905.6	905.6	664.1	
	PW930	PSU	9300	65	143	1.12	1.12	N/A	0.84	N/A	1288.0	N/A	966.0	N/A	
		DIA	9300	65	143	1.12	1.12	0.84	0.84	0.62	1288.0	966.0	966.0	708.4	
		WIA	9300	65	143	1.12	1.12	0.84	0.84	0.62	1288.0	966.0	966.0	708.4	
	PW935	PSU	9000	60	150	1.03	1.03	N/A	0.77	N/A	1184.5	N/A	888.4	N/A	
		DIA	9000	60	150	1.03	1.03	0.77	0.77	0.57	1184.5	888.4	888.4	651.5	
		WIA	9000	60	150	1.03	1.03	0.77	0.77	0.57	1184.5	888.4	888.4	651.5	

APPENDIX (PEP ECOPASSPORT ALIGNED)

This section represents the scaling method for the **B6 module**, following the PEP EcoPassport PSR for luminaries (PSR-0014-ed2.0-EN-2023 07 13). The GWP results were scaled from a reference variant of a product family, based on various light management functions, the lumen output (O_{lum}) and reference service life (RSL) of each product within the same product family.

To calculate the Scaled Impact (SI_{pep}), we have followed the below methods:

1. Calculate the power scaling factor (PSF), which is the ratio of the power input of the variant in questions P_{in} and the power input of the base variant P_{base} .

$$PSF = \frac{P_{in}}{P_{base}}$$

2. Calculate the Total Scaling factor by multiplying the PSF by the control scaling factor (CSF), where the CSF is determined according the relevant control factor scenario (e.g. if the luminaire has a presence detection system), as presented in Table A1.

$$TSF = PSF * CSF$$

Table A3: Light management functions (PEP EcoPassport aligned)

Scenario	Abbrev.	CSF
No control	NC	1
Daylight dependency factor	DD	0.75
Presence sensing	PS	0.75
Daylight dependency and presence sensing	DD+PS	0.55

3. Lastly, the GWP of the base variant is then scaled by the TSF.

$$Scaled\ GWP = GWP_{case} * TSF$$

4. Using this scaled GWP, we then can apply the PEP Ecopassport method for calculating the environmental impact of the functional unit for a luminary (1000 lumens over 35000 hours), applied to B6, where the Functional Unit application considers the lumen output (O_{lum}) and reference service lifetime (RSL) of the product to estimate the final environmental impact. The scaled impact (SI_{pep}) is presented in Table A4.

$$SI_{PEP} = Scaled\ GWP * \frac{1,000}{O_{lum}} * \frac{35,000}{RSL}$$

As described in the EPD, calculations are made based on dataset describing electricity available on the low voltage level in Europe for year 2022 (source Ecoinvent 3.8 database). This value should be adjusted depending on specific project requirements. Presented controls factors and functional unit conversion values are based on the PEP EcoPassport PSR for luminaries (PSR-0014-ed2.0-EN-2023 07 13). Please refer to this publication or contact Signify directly for more information.

Table A4 Scale impact per scaling factor (PEP EcoPassport aligned)

PFC	Lamp family	Module color	Driver type	Flux [lm]	Power [W]	Efficacy [lm/W]	PSF	Total Scaling Factor (TSF)				Scaled Impacts (GWP100 B6 - kg CO2eq.)				
								NC	DD	PS	DD+PS	NC	DD	PS	DD+PS	
SM515T, SM515S, RC516B and RC517B	LED66S	830	PSU	6700	50	134	0.86	0.86	N/A	0.65	N/A	103.3	N/A	77.5	N/A	
			DIA	6700	50	134	0.86	0.86	0.65	0.65	0.47	103.3	77.5	77.5	56.8	
			WIA	6700	50	134	0.86	0.86	0.65	0.65	0.47	103.3	77.5	77.5	56.8	
		830 HE	PSU	6600	43	153	0.74	0.74	N/A	0.56	N/A	90.3	N/A	67.7	N/A	
			DIA	6600	43	153	0.74	0.74	0.56	0.56	0.41	90.3	67.7	67.7	49.6	
			WIA	6600	43	153	0.74	0.74	0.56	0.56	0.41	90.3	67.7	67.7	49.6	
		830 XA	PSU	6700	43	156	0.74	0.74	N/A	0.56	N/A	88.9	N/A	66.7	N/A	
			DIA	6700	43	156	0.74	0.74	0.56	0.56	0.41	88.9	66.7	66.7	48.9	
			WIA	6700	43	156	0.74	0.74	0.56	0.56	0.41	88.9	66.7	66.7	48.9	
		835	PSU	6600	44	150	0.76	0.76	N/A	0.57	N/A	92.7	N/A	69.5	N/A	
			DIA	6600	44	150	0.76	0.76	0.57	0.57	0.42	92.7	69.5	69.5	51.0	
			WIA	6600	44	150	0.76	0.76	0.57	0.57	0.42	92.7	69.5	69.5	51.0	
		840	PSU	6600	46	143	0.79	0.79	N/A	0.59	N/A	96.4	N/A	72.3	N/A	
			DIA	6600	46	143	0.79	0.79	0.59	0.59	0.43	96.4	72.3	72.3	53.0	
			WIA	6600	46	143	0.79	0.79	0.59	0.59	0.43	96.4	72.3	72.3	53.0	
		840 HE	PSU	6700	41	163	0.71	0.71	N/A	0.53	0.53	N/A	85.3	N/A	64.0	N/A
			DIA	6700	41	163	0.71	0.71	0.53	0.53	0.39	85.3	64.0	64.0	46.9	
			WIA	6700	41	163	0.71	0.71	0.53	0.53	0.39	85.3	64.0	64.0	46.9	
		840 XA	PSU	6500	36	181	0.62	0.62	N/A	0.47	N/A	76.8	N/A	57.6	N/A	
			DIA	6500	36	181	0.62	0.62	0.47	0.47	0.34	76.8	57.6	57.6	42.2	
			WIA	6500	36	181	0.62	0.62	0.47	0.47	0.34	76.8	57.6	57.6	42.2	
		930	PSU	6900	45	153	0.78	0.78	N/A	0.59	N/A	91.0	N/A	68.3	N/A	
			DIA	6900	45	153	0.78	0.78	0.59	0.59	0.43	91.0	68.3	68.3	50.1	
			WIA	6900	45	153	0.78	0.78	0.59	0.59	0.43	91.0	68.3	68.3	50.1	
	940	PSU	6900	44	157	0.76	0.76	N/A	0.57	N/A	88.7	N/A	66.5	N/A		
		DIA	6900	44	157	0.76	0.76	0.57	0.57	0.42	88.7	66.5	66.5	48.8		
		WIA	6900	44	157	0.76	0.76	0.57	0.57	0.42	88.7	66.5	66.5	48.8		
	PW930	PSU	7100	48	148	0.83	0.83	N/A	0.62	N/A	94.1	N/A	70.6	N/A		
		DIA	7100	48	148	0.83	0.83	0.62	0.62	0.46	94.1	70.6	70.6	51.8		
		WIA	7100	48	148	0.83	0.83	0.62	0.62	0.46	94.1	70.6	70.6	51.8		
	PW935	PSU	6800	44	155	0.76	0.76	N/A	0.57	N/A	90.0	N/A	67.5	N/A		
		DIA	6800	44	155	0.76	0.76	0.57	0.57	0.42	90.0	67.5	67.5	49.5		
		WIA	6800	44	155	0.76	0.76	0.57	0.57	0.42	90.0	67.5	67.5	49.5		
	LED80S	830	PSU	8100	64	127	1.1	1.10	N/A	0.83	N/A	109.3	N/A	82.0	N/A	
			DIA	8100	64	127	1.1	1.10	0.83	0.83	0.61	109.3	82.0	82.0	60.1	
			WIA	8100	64	127	1.1	1.10	0.83	0.83	0.61	109.3	82.0	82.0	60.1	
830 HE		PSU	8000	52	154	0.9	0.90	N/A	0.68	N/A	90.6	N/A	67.9	N/A		

		830 XA	DIA	8000	52	154	0.9	0.90	0.68	0.68	0.50	90.6	67.9	67.9	49.8
			WIA	8000	52	154	0.9	0.90	0.68	0.68	0.50	90.6	67.9	67.9	49.8
			PSU	8000	48	167	0.83	0.83	N/A	0.62	N/A	83.5	N/A	62.6	N/A
			DIA	8000	48	167	0.83	0.83	0.62	0.62	0.46	83.5	62.6	62.6	45.9
			WIA	8000	48	167	0.83	0.83	0.62	0.62	0.46	83.5	62.6	62.6	45.9
			PSU	8200	56	146	0.97	0.97	N/A	0.73	N/A	95.2	N/A	71.4	N/A
		835	DIA	8200	56	146	0.97	0.97	0.73	0.73	0.53	95.2	71.4	71.4	52.4
			WIA	8200	56	146	0.97	0.97	0.73	0.73	0.53	95.2	71.4	71.4	52.4
			PSU	8100	58	140	1	1.00	N/A	0.75	N/A	99.4	N/A	74.5	N/A
		840	DIA	8100	58	140	1	1.00	0.75	0.75	0.55	99.4	74.5	74.5	54.7
			WIA	8100	58	140	1	1.00	0.75	0.75	0.55	99.4	74.5	74.5	54.7
			PSU	8000	50	160	0.86	0.86	N/A	0.65	N/A	86.5	N/A	64.9	N/A
		840 HE	DIA	8000	50	160	0.86	0.86	0.65	0.65	0.47	86.5	64.9	64.9	47.6
			WIA	8000	50	160	0.86	0.86	0.65	0.65	0.47	86.5	64.9	64.9	47.6
			PSU	8000	45	178	0.78	0.78	N/A	0.59	N/A	78.5	N/A	58.9	N/A
840 XA	DIA	8000	45	178	0.78	0.78	0.59	0.59	0.43	78.5	58.9	58.9	43.2		
	WIA	8000	45	178	0.78	0.78	0.59	0.59	0.43	78.5	58.9	58.9	43.2		
	PSU	8400	57	147	0.98	0.98	N/A	0.74	N/A	93.9	N/A	70.4	N/A		
930	DIA	8400	57	147	0.98	0.98	0.74	0.74	0.54	93.9	70.4	70.4	51.7		
	WIA	8400	57	147	0.98	0.98	0.74	0.74	0.54	93.9	70.4	70.4	51.7		
	PSU	8300	53	157	0.91	0.91	N/A	0.68	N/A	88.3	N/A	66.2	N/A		
940	DIA	8300	53	157	0.91	0.91	0.68	0.68	0.50	88.3	66.2	66.2	48.5		
	WIA	8300	53	157	0.91	0.91	0.68	0.68	0.50	88.3	66.2	66.2	48.5		
	PSU	8100	55	147	0.95	0.95	N/A	0.71	N/A	94.4	N/A	70.8	N/A		
PW930	DIA	8100	55	147	0.95	0.95	0.71	0.71	0.52	94.4	70.8	70.8	51.9		
	WIA	8100	55	147	0.95	0.95	0.71	0.71	0.52	94.4	70.8	70.8	51.9		
	PSU	8000	53	151	0.91	0.91	N/A	0.68	N/A	91.6	N/A	68.7	N/A		
PW935	DIA	8000	53	151	0.91	0.91	0.68	0.68	0.50	91.6	68.7	68.7	50.4		
	WIA	8000	53	151	0.91	0.91	0.68	0.68	0.50	91.6	68.7	68.7	50.4		
	PSU	9200	74	124	1.28	1.28	N/A	0.96	N/A	112.0	N/A	84.0	N/A		
830	DIA	9200	74	124	1.28	1.28	0.96	0.96	0.70	112.0	84.0	84.0	61.6		
	WIA	9200	74	124	1.28	1.28	0.96	0.96	0.70	112.0	84.0	84.0	61.6		
	PSU	8900	59	151	1.02	1.02	N/A	0.77	N/A	92.3	N/A	69.2	N/A		
830 HE	DIA	8900	59	151	1.02	1.02	0.77	0.77	0.56	92.3	69.2	69.2	50.7		
	WIA	8900	59	151	1.02	1.02	0.77	0.77	0.56	92.3	69.2	69.2	50.7		
	PSU	9100	53	172	0.91	0.91	N/A	0.68	N/A	80.5	N/A	60.4	N/A		
830 XA	DIA	9100	53	172	0.91	0.91	0.68	0.68	0.50	80.5	60.4	60.4	44.3		
	WIA	9100	53	172	0.91	0.91	0.68	0.68	0.50	80.5	60.4	60.4	44.3		
	PSU	9000	63	143	1.09	1.09	N/A	0.82	N/A	97.5	N/A	73.1	N/A		
835	DIA	9000	63	143	1.09	1.09	0.82	0.82	0.60	97.5	73.1	73.1	53.6		
	WIA	9000	63	143	1.09	1.09	0.82	0.82	0.60	97.5	73.1	73.1	53.6		
	PSU	9200	67	137	1.16	1.16	N/A	0.87	N/A	101.5	N/A	76.1	N/A		
840	PSU	9200	67	137	1.16	1.16	N/A	0.87	N/A	101.5	N/A	76.1	N/A		

		840 HE	DIA	9200	67	137	1.16	1.16	0.87	0.87	0.64	101.5	76.1	76.1	55.8
			WIA	9200	67	137	1.16	1.16	0.87	0.87	0.64	101.5	76.1	76.1	55.8
		840 XA	PSU	9000	56	161	0.97	0.97	N/A	0.73	N/A	86.8	N/A	65.1	N/A
			DIA	9000	56	161	0.97	0.97	0.73	0.73	0.53	86.8	65.1	65.1	47.7
		930	PSU	9200	53	174	0.91	0.91	N/A	0.68	N/A	79.6	N/A	59.7	N/A
			DIA	9200	53	174	0.91	0.91	0.68	0.68	0.50	79.6	59.7	59.7	43.8
		940	PSU	9500	65	146	1.12	1.12	N/A	0.84	N/A	94.9	N/A	71.2	N/A
			DIA	9500	65	146	1.12	1.12	0.84	0.84	0.62	94.9	71.2	71.2	52.2
		PW930	PSU	9400	61	154	1.05	1.05	N/A	0.79	N/A	89.9	N/A	67.4	N/A
			DIA	9400	61	154	1.05	1.05	0.79	0.79	0.58	89.9	67.4	67.4	49.5
		PW935	PSU	9300	65	143	1.12	1.12	N/A	0.84	N/A	96.9	N/A	72.7	N/A
			DIA	9300	65	143	1.12	1.12	0.84	0.84	0.62	96.9	72.7	72.7	53.3
		PW935	PSU	9000	60	150	1.03	1.03	N/A	0.77	N/A	92.1	N/A	69.1	N/A
			DIA	9000	60	150	1.03	1.03	0.77	0.77	0.57	92.1	69.1	69.1	50.7
			WIA	9000	60	150	1.03	1.03	0.77	0.77	0.57	92.1	69.1	69.1	50.7