

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14021 / ISO 21930

DN610B 20S/840UE PSD-E C WH

DN610BI

Signify N.V.



EPD HUB

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 **signify**

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Signify
Address	5600 VB Eindhoven, The Netherlands
Contact details	sustainability@signify.com
Website	https://www.signify.com/global

EPD STANDARDS, SCOPE AND VERIFICATION

Reference standard	EN 15804+A2:2019 and ISO 14021
Sector	Electrical product
Category of EPD	Self-declared EPD
Scope of the EPD	Cradle to gate with options, A4-B7, and modules C1-C4, D
EPD author	Sustainability Signify
EPD verification	Independent verification of this EPD and data, according to ISO 14021: ☒ Internal certification ☐ External verification

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	DN610B 20S/840UE PSD-E C WH
Additional labels	DN610BI
Product reference	910505104716
Place of production	HUNGARY
Period for data	2024
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3	Not applicable

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 unit
Declared unit mass	0.68 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	1.05E+01
GWP-total, A1-A3 (kgCO ₂ e)	1.00E+01
Secondary material, inputs (%)	7.7
Secondary material, outputs (%)	49.8
Total energy use, A1-A3 (kWh)	39.9
Net fresh water use, A1-A3 (m ³ e)	0.08

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.

For more information, please visit: <https://www.signify.com/global>

PRODUCT DESCRIPTION

Philips LuxSpace is designed to provide the perfect combination of efficiency, high visual comfort, and stylish design without compromising on lighting performance. LuxSpace offers a long lifetime and efficacy of up to 185 lm/W, along with excellent color rendering and light distribution which have a major influence on the visual and non-visual effects of light on human health and well-being. The LuxSpace downlight family offers a wide choice of options for creating the desired ambience and supporting user comfort, no matter what the application is. For office applications, LuxSpace offers dedicated tunable white luminaires with lighting controls for circadian lighting solutions and office-compliant versions (UGR19).

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass- %	Material origin
Metals	28.17	APAC , EU
Minerals	0	Not applicable
Fossil materials	71.83	APAC , EU
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	0.125

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 Unit
Mass per declared unit	0.68 kg
Functional unit	2200 Lumens over 100000 hours
Reference service life	100000 hours

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 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. Manufacturing loss, ancillaries and wastes are calculated according to the data that each manufacturing site is sharing with Signify. The total annual amount of waste in kg is allocated to the total annual production in kg at the specific manufacturing site responsible for the production of the studied luminaire. Thus, it is possible to allocate it according to the weight of the product analysed in this study. Some of the

waste are due to ancillary materials used during manufacturing while the rest is due to material losses.

TRANSPORT AND INSTALLATION (A4-A5)

Transport distances were calculated on the base of the supplier location and manufacturing location and then made a cumulative group choosing the conservative scenario. Environmental impacts from installation include waste packaging materials (A5). The impacts of energy consumption and the used ancillary materials during installation are considered negligible.

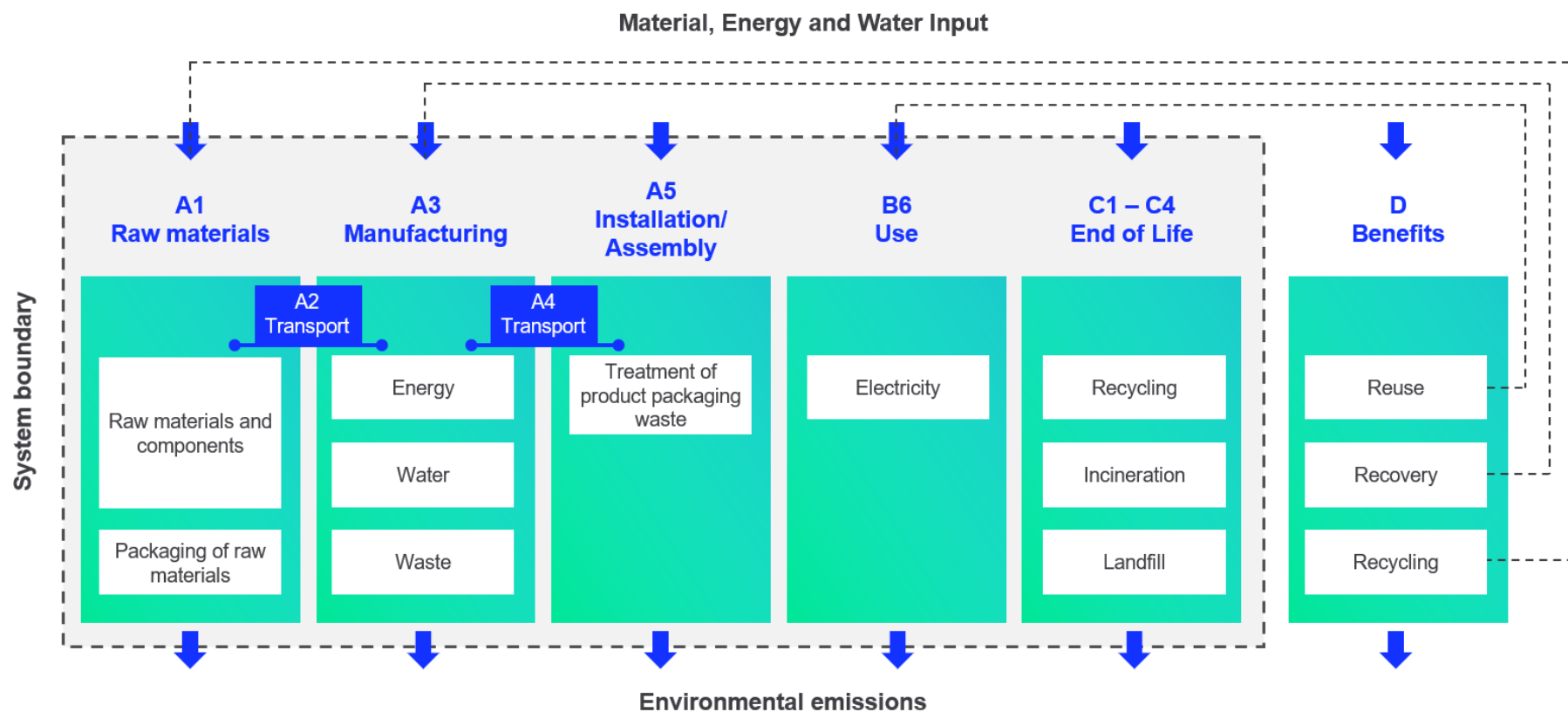
PRODUCT USE AND MAINTENANCE (B1-B7)

During the use phase, the product consumes electricity from EU's electricity grid mix (B6). The total power consumption of the reference product is calculated as follows: Wattage x Reference lifetime = kWh consumed throughout the entire use phase B6.

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.

SYSTEM BOUNDARY



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

This EPD is created with a most conservative scenario in A1-A3 in terms of material composition.

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 3.10.1 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	9.64E+00	2.30E-01	1.34E-01	1.00E+01	2.16E-01	4.75E-01	MNR	MNR	MNR	MNR	MNR	4.27E+02	MNR	MNR	1.37E-02	4.40E-01	3.14E-01	-2.30E+00
GWP – fossil	kg CO ₂ e	9.70E+00	2.30E-01	5.72E-01	1.05E+01	2.16E-01	2.62E-02	MNR	MNR	MNR	MNR	MNR	4.26E+02	MNR	MNR	1.37E-02	4.40E-01	2.32E-01	-2.30E+00
GWP – biogenic	kg CO ₂ e	-6.90E-02	0.00E+00	-4.48E-01	-5.17E-01	0.00E+00	4.48E-01	MNR	MNR	MNR	MNR	MNR	0.00E+00	MNR	MNR	0.00E+00	0.00E+00	8.18E-02	9.42E-04
GWP – LULUC	kg CO ₂ e	1.29E-02	1.06E-04	1.02E-02	2.32E-02	9.65E-05	3.21E-06	MNR	MNR	MNR	MNR	MNR	1.31E+00	MNR	MNR	6.13E-06	2.75E-05	5.42E-06	-6.79E-04
Ozone depletion pot.	kg CFC ₁₁ e	1.37E-07	3.38E-09	1.89E-08	1.59E-07	3.18E-09	1.43E-10	MNR	MNR	MNR	MNR	MNR	7.84E-06	MNR	MNR	2.02E-10	2.63E-10	1.60E-10	-9.19E-09
Acidification potential	mol H ⁺ e	7.35E-02	1.62E-03	2.52E-03	7.76E-02	7.35E-04	8.85E-05	MNR	MNR	MNR	MNR	MNR	2.50E+00	MNR	MNR	4.67E-05	1.89E-04	7.35E-05	-3.05E-02
EP-freshwater ²⁾	kg Pe	5.07E-03	1.64E-05	2.19E-04	5.30E-03	1.68E-05	1.30E-06	MNR	MNR	MNR	MNR	MNR	3.96E-01	MNR	MNR	1.07E-06	7.58E-06	3.43E-06	-1.59E-03
EP-marine	kg Ne	1.04E-02	4.57E-04	1.09E-03	1.20E-02	2.42E-04	4.63E-05	MNR	MNR	MNR	MNR	MNR	3.92E-01	MNR	MNR	1.53E-05	8.02E-05	3.59E-04	-3.04E-03
EP-terrestrial	mol Ne	1.11E-01	5.02E-03	6.97E-03	1.23E-01	2.63E-03	4.02E-04	MNR	MNR	MNR	MNR	MNR	3.52E+00	MNR	MNR	1.67E-04	6.83E-04	3.37E-04	-3.30E-02
POCP (“smog”) ³⁾	kg NMVOCe	4.15E-02	1.70E-03	2.48E-03	4.57E-02	1.08E-03	1.02E-04	MNR	MNR	MNR	MNR	MNR	1.16E+00	MNR	MNR	6.89E-05	1.80E-04	9.70E-05	-1.00E-02
ADP-minerals & metals ⁴⁾	kg Sbe	6.52E-04	5.83E-07	3.45E-06	6.56E-04	6.02E-07	2.84E-08	MNR	MNR	MNR	MNR	MNR	5.74E-03	MNR	MNR	3.82E-08	3.25E-07	2.40E-08	-1.84E-04
ADP-fossil resources	MJ	1.33E+02	3.27E+00	8.26E+00	1.44E+02	3.13E+00	7.59E-02	MNR	MNR	MNR	MNR	MNR	9.90E+03	MNR	MNR	1.99E-01	2.46E-01	1.13E-01	-2.47E+01
Water use ⁵⁾	m ³ e depr.	3.00E+00	1.53E-02	2.38E-01	3.25E+00	1.55E-02	2.28E-02	MNR	MNR	MNR	MNR	MNR	2.70E+02	MNR	MNR	9.82E-04	3.12E-02	1.46E-02	-2.85E-01

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	6.27E-07	2.08E-08	4.40E-08	6.92E-07	2.16E-08	7.38E-10	MNR	MNR	MNR	MNR	MNR	8.92E-06	MNR	MNR	1.37E-09	1.82E-09	7.92E-10	-1.59E-07
Ionizing radiation ⁶⁾	kBq U235e	5.65E-01	2.68E-03	2.79E-02	5.95E-01	2.73E-03	1.42E-04	MNR	MNR	MNR	MNR	MNR	2.74E+02	MNR	MNR	1.73E-04	1.41E-03	1.58E-04	-1.17E-01
Ecotoxicity (freshwater)	CTUe	1.28E+02	4.35E-01	2.76E+00	1.31E+02	4.43E-01	5.38E-01	MNR	MNR	MNR	MNR	MNR	1.51E+03	MNR	MNR	2.81E-02	9.10E-01	4.42E+00	-1.35E+01
Human toxicity, cancer	CTUh	7.33E-09	3.95E-11	2.79E-10	7.64E-09	3.56E-11	2.60E-11	MNR	MNR	MNR	MNR	MNR	1.44E-07	MNR	MNR	2.26E-12	4.75E-11	2.59E-11	-2.02E-09
Human tox. non-cancer	CTUh	2.77E-07	1.96E-09	7.62E-09	2.87E-07	2.03E-09	1.07E-09	MNR	MNR	MNR	MNR	MNR	7.46E-06	MNR	MNR	1.29E-10	1.75E-09	1.31E-09	-1.55E-07
SQP ⁷⁾	-	4.48E+01	2.92E+00	3.03E+01	7.80E+01	3.15E+00	2.30E-02	MNR	MNR	MNR	MNR	MNR	2.20E+03	MNR	MNR	2.00E-01	1.67E-01	1.58E-01	-8.54E+00

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	1.19E+01	4.24E-02	2.56E+00	1.45E+01	4.29E-02	-5.50E+00	MNR	MNR	MNR	MNR	MNR	2.72E+03	MNR	MNR	2.72E-03	2.65E-02	3.02E-03	-1.04E+00
Renew. PER as material	MJ	8.60E-01	0.00E+00	3.96E+00	4.82E+00	0.00E+00	-3.96E+00	MNR	MNR	MNR	MNR	MNR	0.00E+00	MNR	MNR	0.00E+00	-2.74E-02	-8.32E-01	0.00E+00
Total use of renew. PER	MJ	1.28E+01	4.24E-02	6.52E+00	1.93E+01	4.29E-02	-9.46E+00	MNR	MNR	MNR	MNR	MNR	2.72E+03	MNR	MNR	2.72E-03	-8.85E-04	-8.29E-01	-1.04E+00
Non-re. PER as energy	MJ	1.18E+02	3.27E+00	7.76E+00	1.29E+02	3.13E+00	-1.00E-01	MNR	MNR	MNR	MNR	MNR	9.90E+03	MNR	MNR	1.99E-01	-7.80E+00	-1.00E+01	-2.51E+01
Non-re. PER as material	MJ	1.47E+01	0.00E+00	3.59E-01	1.50E+01	0.00E+00	-3.59E-01	MNR	MNR	MNR	MNR	MNR	0.00E+00	MNR	MNR	0.00E+00	-7.74E+00	-6.94E+00	2.09E+00
Total use of non-re. PER	MJ	1.33E+02	3.27E+00	8.12E+00	1.44E+02	3.13E+00	-4.60E-01	MNR	MNR	MNR	MNR	MNR	9.90E+03	MNR	MNR	1.99E-01	-1.55E+01	-1.70E+01	-2.31E+01
Secondary materials	kg	5.23E-02	1.41E-03	2.32E-01	2.86E-01	1.33E-03	1.11E-04	MNR	MNR	MNR	MNR	MNR	1.64E+00	MNR	MNR	8.46E-05	2.63E-04	2.20E-04	1.21E-01
Renew. secondary fuels	MJ	1.37E-02	1.59E-05	3.38E-02	4.75E-02	1.69E-05	1.77E-06	MNR	MNR	MNR	MNR	MNR	1.31E-02	MNR	MNR	1.08E-06	1.02E-05	1.92E-06	-2.98E-04
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	0.00E+00	MNR	MNR	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of net fresh water	m ³	7.61E-02	4.51E-04	6.03E-03	8.25E-02	4.63E-04	3.60E-04	MNR	MNR	MNR	MNR	MNR	8.56E+00	MNR	MNR	2.94E-05	5.65E-04	-5.16E-04	-1.18E-02

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	1.29E+00	5.39E-03	3.32E-02	1.33E+00	5.30E-03	6.12E-03	MNR	MNR	MNR	MNR	MNR	2.50E+01	MNR	MNR	3.37E-04	8.72E-03	1.76E-02	-4.37E-01
Non-hazardous waste	kg	2.40E+01	9.71E-02	9.62E-01	2.50E+01	9.81E-02	3.36E-01	MNR	MNR	MNR	MNR	MNR	1.94E+03	MNR	MNR	6.23E-03	2.33E-01	1.20E+00	-7.13E+00
Radioactive waste	kg	1.41E-04	6.55E-07	6.67E-06	1.49E-04	6.67E-07	3.61E-08	MNR	MNR	MNR	MNR	MNR	7.03E-02	MNR	MNR	4.24E-08	3.48E-07	3.93E-08	-2.82E-05

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	0.00E+00	MNR	MNR	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	3.18E-01	3.18E-01	0.00E+00	0.00E+00	MNR	MNR	MNR	MNR	MNR	0.00E+00	MNR	MNR	0.00E+00	1.60E-01	0.00E+00	0.00E+00
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	0.00E+00	MNR	MNR	0.00E+00	1.79E-01	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	3.40E-02	3.40E-02	0.00E+00	0.00E+00	MNR	MNR	MNR	MNR	MNR	0.00E+00	MNR	MNR	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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	9.65E+00	2.29E-01	6.15E-01	1.05E+01	2.14E-01	2.61E-02	MNR	MNR	MNR	MNR	MNR	4.26E+02	MNR	MNR	1.36E-02	4.40E-01	2.31E-01	-2.28E+00
Ozone depletion Pot.	kg CFC ₁₁ e	1.25E-07	2.70E-09	1.85E-08	1.46E-07	2.54E-09	1.28E-10	MNR	MNR	MNR	MNR	MNR	6.55E-06	MNR	MNR	1.61E-10	2.29E-10	1.35E-10	-8.30E-09
Acidification	kg SO ₂ e	6.22E-02	1.27E-03	1.77E-03	6.52E-02	5.61E-04	6.39E-05	MNR	MNR	MNR	MNR	MNR	2.13E+00	MNR	MNR	3.57E-05	1.44E-04	5.29E-05	-2.65E-02
Eutrophication	kg PO ₄ ³ e	1.59E-02	2.08E-04	1.45E-03	1.76E-02	1.37E-04	2.17E-05	MNR	MNR	MNR	MNR	MNR	2.76E-01	MNR	MNR	8.69E-06	3.64E-05	3.30E-05	-2.66E-03
POCP ("smog")	kg C ₂ H ₄ e	5.46E-03	8.33E-05	2.08E-04	5.75E-03	5.00E-05	4.54E-06	MNR	MNR	MNR	MNR	MNR	1.16E-01	MNR	MNR	3.18E-06	9.67E-06	6.42E-06	-1.42E-03
ADP-elements	kg Sbe	6.49E-04	5.69E-07	3.40E-06	6.53E-04	5.87E-07	1.95E-08	MNR	MNR	MNR	MNR	MNR	5.73E-03	MNR	MNR	3.73E-08	3.14E-07	1.91E-08	-1.84E-04
ADP-fossil	MJ	1.23E+02	3.22E+00	7.80E+00	1.34E+02	3.09E+00	7.36E-02	MNR	MNR	MNR	MNR	MNR	5.08E+03	MNR	MNR	1.96E-01	2.23E-01	1.10E-01	-2.28E+01

APPENDIX (EPD HUB 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 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} .

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

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). 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.

$$TSF = PSF * CSF$$

Table A1: Light management function (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.

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

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

Configuration	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
DN610B LED20S/830UE PSED-E C	2100.0	13.0	161.5	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/830UE PSED-E WR	2200.0	14.4	152.8	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED20S/830 PSED-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4
DN610B LED20S/830 PSED-E BKR	2200.0	23.5	93.6	1.808	1.808	1.356	1.356	0.994	772.0	579.0	579.0	424.4
DN610B LED20S/840UE PSED-E C	2200.0	13.0	169.2	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/840UE PSED-E WR	2300.0	14.4	159.7	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED20S/840 PSED-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4
DN610B LED20S/840 PSED-E BKR	2300.0	25.0	92.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED20S/930UE PSED-E C	2000.0	13.0	153.8	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/930UE PSED-E WR	2100.0	14.4	145.8	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED20S/930 PSED-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4
DN610B LED20S/930 PSED-E BKR	2100.0	24.0	87.5	1.846	1.846	1.385	1.385	1.015	788.2	591.4	591.4	433.4
DN610B LED20S/940UE PSED-E C	2100.0	13.0	161.5	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/940UE PSED-E WR	2200.0	14.4	152.8	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED20S/940 PSED-E M	2100.0	18.2	115.4	1.4	1.4	1.05	1.05	0.77	597.8	448.4	448.4	328.8
DN610B LED20S/940 PSED-E BKR	2200.0	24.0	91.7	1.846	1.846	1.385	1.385	1.015	788.2	591.4	591.4	433.4
DN610B LED24S/830UE PSED-E C	2400.0	14.8	162.2	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3

DN610B LED24S/830UE PSED-E WR	2500.0	16.2	154.3	1.246	1.246	0.934	0.934	0.685	532.0	398.8	398.8	292.5
DN610B LED24S/830 PSED-E M	2300.0	19.8	116.2	1.523	1.523	1.142	1.142	0.838	650.3	487.6	487.6	357.8
DN610B LED24S/830 PSED-E BKR	2500.0	27.5	90.9	2.115	2.115	1.586	1.586	1.163	903.1	677.2	677.2	496.6
DN610B LED24S/840UE PSED-E C	2500.0	14.8	168.9	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/840UE PSED-E WR	2600.0	14.4	180.6	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED24S/840 PSED-E M	2500.0	19.8	126.3	1.523	1.523	1.142	1.142	0.838	650.3	487.6	487.6	357.8
DN610B LED24S/840 PSED-E BKR	2600.0	27.5	94.5	2.115	2.115	1.586	1.586	1.163	903.1	677.2	677.2	496.6
DN610B LED24S/930UE PSED-E C	2400.0	15.0	160.0	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED24S/930UE PSED-E WR	2400.0	16.2	148.1	1.246	1.246	0.934	0.934	0.685	532.0	398.8	398.8	292.5
DN610B LED24S/930 PSED-E M	2400.0	22.0	109.1	1.692	1.692	1.269	1.269	0.931	722.5	541.9	541.9	397.5
DN610B LED24S/930 PSED-E BKR	2400.0	27.5	87.3	2.115	2.115	1.586	1.586	1.163	903.1	677.2	677.2	496.6
DN610B LED24S/940UE PSED-E C	2400.0	15.0	160.0	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED24S/940UE PSED-E WR	2500.0	16.2	154.3	1.246	1.246	0.934	0.934	0.685	532.0	398.8	398.8	292.5
DN610B LED24S/940 PSED-E M	2500.0	22.0	113.6	1.692	1.692	1.269	1.269	0.931	722.5	541.9	541.9	397.5
DN610B LED24S/940 PSED-E BKR	2500.0	27.5	90.9	2.115	2.115	1.586	1.586	1.163	903.1	677.2	677.2	496.6
DN610B LED40S/830UE PSED-E C	3900.0	25.5	152.9	1.962	1.962	1.472	1.472	1.079	837.8	628.5	628.5	460.7
DN610B LED40S/830UE PSED-E WR	4100.0	29.0	141.4	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/830 PSED-E M	4200.0	38.5	109.1	2.962	2.962	2.222	2.222	1.629	1264.8	948.8	948.8	695.6
DN610B LED40S/840UE PSED-E C	4200.0	26.0	161.5	2.0	2.0	1.5	1.5	1.1	854.0	640.5	640.5	469.7
DN610B LED40S/840UE PSED-E WR	4300.0	29.0	148.3	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/840 PSED-E M	4200.0	36.5	115.1	2.808	2.808	2.106	2.106	1.544	1199.0	899.3	899.3	659.3
DN610B LED40S/930UE PSED-E C	4300.0	30.0	143.3	2.308	2.308	1.731	1.731	1.269	985.5	739.1	739.1	541.9
DN610B LED40S/930UE PSED-E WR	3900.0	29.0	134.5	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/940UE PSED-E C	3900.0	26.5	147.2	2.038	2.038	1.528	1.528	1.121	870.2	652.5	652.5	478.7

DN610B LED40S/940UE PSED-E WR	4100.0	29.0	141.4	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED20S/830UE DIA-E C	2100.0	13.0	161.5	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/830UE PSD-E C	2100.0	13.0	161.5	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/830UE DIA-E WR	2200.0	15.0	146.7	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED20S/830UE PSD-E WR	2200.0	14.4	152.8	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED20S/830 DIA-E M	2100.0	18.8	111.7	1.446	1.446	1.085	1.085	0.795	617.4	463.3	463.3	339.5
DN610B LED20S/830 PSD-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4
DN610B LED20S/830 PSU-E BKR	2200.0	23.5	93.6	1.808	1.808	1.356	1.356	0.994	772.0	579.0	579.0	424.4
DN610B LED20S/830 PSD-E BKR	2200.0	24.5	89.8	1.885	1.885	1.414	1.414	1.037	804.9	603.8	603.8	442.8
DN610B LED20S/830 DIA-E BKR	2200.0	23.5	93.6	1.808	1.808	1.356	1.356	0.994	772.0	579.0	579.0	424.4
DN610B LED20S/840UE DIA-E C	2200.0	13.0	169.2	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/840UE PSD-E C	2200.0	13.0	169.2	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/840UE DIA-E WR	2300.0	15.0	153.3	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED20S/840UE PSD-E WR	2300.0	14.4	159.7	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED20S/840 DIA-E M	2100.0	19.0	110.5	1.462	1.462	1.097	1.097	0.804	624.3	468.4	468.4	343.3
DN610B LED20S/840 PSD-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4
DN610B LED20S/840 PSU-E BKR	2300.0	23.5	97.9	1.808	1.808	1.356	1.356	0.994	772.0	579.0	579.0	424.4
DN610B LED20S/840 PSD-E BKR	2300.0	25.0	92.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED20S/840 DIA-E BKR	2300.0	23.5	97.9	1.808	1.808	1.356	1.356	0.994	772.0	579.0	579.0	424.4
DN610B LED20S/930UE PSD-E C	2000.0	13.0	153.8	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/930UE DIA-E C	2000.0	13.2	151.5	1.015	1.015	0.761	0.761	0.558	433.4	324.9	324.9	238.3
DN610B LED20S/930UE PSD-E WR	2100.0	14.4	145.8	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED20S/930UE DIA-E WR	2100.0	15.2	138.2	1.169	1.169	0.877	0.877	0.643	499.2	374.5	374.5	274.6
DN610B LED20S/930 PSD-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4

DN610B LED20S/930 DIA-E M	2100.0	19.0	110.5	1.462	1.462	1.097	1.097	0.804	624.3	468.4	468.4	343.3
DN610B LED20S/930 PSU-E BKR	2100.0	24.0	87.5	1.846	1.846	1.385	1.385	1.015	788.2	591.4	591.4	433.4
DN610B LED20S/930 PSD-E BKR	2100.0	24.0	87.5	1.846	1.846	1.385	1.385	1.015	788.2	591.4	591.4	433.4
DN610B LED20S/930 DIA-E BKR	2100.0	25.0	84.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED20S/940UE PSD-E C	2100.0	13.0	161.5	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/940UE DIA-E C	2100.0	13.2	159.1	1.015	1.015	0.761	0.761	0.558	433.4	324.9	324.9	238.3
DN610B LED20S/940UE PSD-E WR	2200.0	14.4	152.8	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED20S/940UE DIA-E WR	2200.0	15.2	144.7	1.169	1.169	0.877	0.877	0.643	499.2	374.5	374.5	274.6
DN610B LED20S/940 PSD-E M	2100.0	18.2	115.4	1.4	1.4	1.05	1.05	0.77	597.8	448.4	448.4	328.8
DN610B LED20S/940 DIA-E M	2100.0	19.0	110.5	1.462	1.462	1.097	1.097	0.804	624.3	468.4	468.4	343.3
DN610B LED20S/940 PSU-E BKR	2200.0	24.0	91.7	1.846	1.846	1.385	1.385	1.015	788.2	591.4	591.4	433.4
DN610B LED20S/940 PSD-E BKR	2200.0	24.0	91.7	1.846	1.846	1.385	1.385	1.015	788.2	591.4	591.4	433.4
DN610B LED20S/940 DIA-E BKR	2200.0	25.0	88.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED24S/830UE PSD-E C	2400.0	14.8	162.2	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/830UE DIA-E C	2400.0	14.8	162.2	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/830UE PSD-E WR	2500.0	16.2	154.3	1.246	1.246	0.934	0.934	0.685	532.0	398.8	398.8	292.5
DN610B LED24S/830UE DIA-E WR	2500.0	16.8	148.8	1.292	1.292	0.969	0.969	0.711	551.7	413.8	413.8	303.6
DN610B LED24S/830 PSU-E M	2300.0	19.6	117.3	1.508	1.508	1.131	1.131	0.829	643.9	482.9	482.9	354.0
DN610B LED24S/830 PSD-E M	2300.0	19.8	116.2	1.523	1.523	1.142	1.142	0.838	650.3	487.6	487.6	357.8
DN610B LED24S/830 DIA-E M	2300.0	20.5	112.2	1.577	1.577	1.183	1.183	0.867	673.4	505.1	505.1	370.2
DN610B LED24S/830 PSD-E BKR	2500.0	27.5	90.9	2.115	2.115	1.586	1.586	1.163	903.1	677.2	677.2	496.6
DN610B LED24S/830 DIA-E BKR	2500.0	28.5	87.7	2.192	2.192	1.644	1.644	1.206	936.0	702.0	702.0	515.0
DN610B LED24S/840UE PSD-E C	2500.0	14.8	168.9	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/840UE DIA-E C	2500.0	14.8	168.9	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3

DN610B LED24S/840UE PSD-E WR	2600.0	14.4	180.6	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED24S/840UE DIA-E WR	2600.0	15.0	173.3	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED24S/840 PSU-E M	2500.0	19.8	126.3	1.523	1.523	1.142	1.142	0.838	650.3	487.6	487.6	357.8
DN610B LED24S/840 PSD-E M	2500.0	19.8	126.3	1.523	1.523	1.142	1.142	0.838	650.3	487.6	487.6	357.8
DN610B LED24S/840 DIA-E M	2500.0	20.5	122.0	1.577	1.577	1.183	1.183	0.867	673.4	505.1	505.1	370.2
DN610B LED24S/840 PSU-E BKR	2700.0	28.5	94.7	2.192	2.192	1.644	1.644	1.206	936.0	702.0	702.0	515.0
DN610B LED24S/840 PSD-E BKR	2600.0	27.5	94.5	2.115	2.115	1.586	1.586	1.163	903.1	677.2	677.2	496.6
DN610B LED24S/840 DIA-E BKR	2600.0	28.5	91.2	2.192	2.192	1.644	1.644	1.206	936.0	702.0	702.0	515.0
DN610B LED24S/930UE PSD-E C	2400.0	15.0	160.0	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED24S/930UE DIA-E C	2400.0	15.2	157.9	1.169	1.169	0.877	0.877	0.643	499.2	374.5	374.5	274.6
DN610B LED24S/930UE PSD-E WR	2400.0	16.2	148.1	1.246	1.246	0.934	0.934	0.685	532.0	398.8	398.8	292.5
DN610B LED24S/930UE DIA-E WR	2400.0	17.0	141.2	1.308	1.308	0.981	0.981	0.719	558.5	418.9	418.9	307.0
DN610B LED24S/930 PSU-E M	2400.0	21.5	111.6	1.654	1.654	1.24	1.24	0.91	706.3	529.5	529.5	388.6
DN610B LED24S/930 PSD-E M	2400.0	22.0	109.1	1.692	1.692	1.269	1.269	0.931	722.5	541.9	541.9	397.5
DN610B LED24S/930 DIA-E M	2400.0	22.5	106.7	1.731	1.731	1.298	1.298	0.952	739.1	554.2	554.2	406.5
DN610B LED24S/930 PSU-E BKR	2400.0	29.0	82.8	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED24S/930 PSD-E BKR	2400.0	27.5	87.3	2.115	2.115	1.586	1.586	1.163	903.1	677.2	677.2	496.6
DN610B LED24S/930 DIA-E BKR	2400.0	28.5	84.2	2.192	2.192	1.644	1.644	1.206	936.0	702.0	702.0	515.0
DN610B LED24S/940UE PSD-E C	2400.0	15.0	160.0	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED24S/940UE DIA-E C	2400.0	15.0	160.0	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED24S/940UE PSD-E WR	2500.0	16.2	154.3	1.246	1.246	0.934	0.934	0.685	532.0	398.8	398.8	292.5
DN610B LED24S/940UE DIA-E WR	2500.0	17.0	147.1	1.308	1.308	0.981	0.981	0.719	558.5	418.9	418.9	307.0
DN610B LED24S/940 PSU-E M	2500.0	21.5	116.3	1.654	1.654	1.24	1.24	0.91	706.3	529.5	529.5	388.6
DN610B LED24S/940 PSD-E M	2500.0	22.0	113.6	1.692	1.692	1.269	1.269	0.931	722.5	541.9	541.9	397.5

DN610B LED24S/940 DIA-E M	2500.0	23.0	108.7	1.769	1.769	1.327	1.327	0.973	755.4	566.6	566.6	415.5
DN610B LED24S/940 PSU-E BKR	2500.0	29.0	86.2	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED24S/940 PSD-E BKR	2500.0	27.5	90.9	2.115	2.115	1.586	1.586	1.163	903.1	677.2	677.2	496.6
DN610B LED24S/940 DIA-E BKR	2500.0	29.0	86.2	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/830UE PSU-E C	3900.0	25.0	156.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED40S/830UE PSD-E C	3900.0	25.5	152.9	1.962	1.962	1.472	1.472	1.079	837.8	628.5	628.5	460.7
DN610B LED40S/830UE DIA-E C	3900.0	24.5	159.2	1.885	1.885	1.414	1.414	1.037	804.9	603.8	603.8	442.8
DN610B LED40S/830UE PSU-E WR	4100.0	29.5	139.0	2.269	2.269	1.702	1.702	1.248	968.9	726.8	726.8	532.9
DN610B LED40S/830UE PSD-E WR	4100.0	29.0	141.4	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/830UE DIA-E WR	4100.0	28.5	143.9	2.192	2.192	1.644	1.644	1.206	936.0	702.0	702.0	515.0
DN610B LED40S/830 PSU-E M	4000.0	38.0	105.3	2.923	2.923	2.192	2.192	1.608	1248.1	936.0	936.0	686.6
DN610B LED40S/830 PSD-E M	4200.0	38.5	109.1	2.962	2.962	2.222	2.222	1.629	1264.8	948.8	948.8	695.6
DN610B LED40S/830 DIA-E M	4200.0	38.5	109.1	2.962	2.962	2.222	2.222	1.629	1264.8	948.8	948.8	695.6
DN610B LED40S/840UE PSU-E C	4200.0	25.0	168.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED40S/840UE PSD-E C	4200.0	26.0	161.5	2.0	2.0	1.5	1.5	1.1	854.0	640.5	640.5	469.7
DN610B LED40S/840UE DIA-E C	4200.0	25.0	168.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED40S/840UE PSU-E WR	4300.0	29.5	145.8	2.269	2.269	1.702	1.702	1.248	968.9	726.8	726.8	532.9
DN610B LED40S/840UE PSD-E WR	4300.0	29.0	148.3	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/840UE DIA-E WR	4300.0	28.5	150.9	2.192	2.192	1.644	1.644	1.206	936.0	702.0	702.0	515.0
DN610B LED40S/840 PSU-E M	4200.0	36.5	115.1	2.808	2.808	2.106	2.106	1.544	1199.0	899.3	899.3	659.3
DN610B LED40S/840 PSD-E M	4200.0	36.5	115.1	2.808	2.808	2.106	2.106	1.544	1199.0	899.3	899.3	659.3
DN610B LED40S/840 DIA-E M	4200.0	36.5	115.1	2.808	2.808	2.106	2.106	1.544	1199.0	899.3	899.3	659.3
DN610B LED40S/930UE PSU-E C	4300.0	29.5	145.8	2.269	2.269	1.702	1.702	1.248	968.9	726.8	726.8	532.9
DN610B LED40S/930UE PSD-E C	4300.0	30.0	143.3	2.308	2.308	1.731	1.731	1.269	985.5	739.1	739.1	541.9

DN610B LED40S/930UE DIA-E C	4300.0	28.5	150.9	2.192	2.192	1.644	1.644	1.206	936.0	702.0	702.0	515.0
DN610B LED40S/930UE PSU-E WR	3900.0	29.5	132.2	2.269	2.269	1.702	1.702	1.248	968.9	726.8	726.8	532.9
DN610B LED40S/930UE PSD-E WR	3900.0	29.0	134.5	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/930UE DIA-E WR	3900.0	29.0	134.5	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/940UE PSU-E C	3900.0	25.5	152.9	1.962	1.962	1.472	1.472	1.079	837.8	628.5	628.5	460.7
DN610B LED40S/940UE PSD-E C	3900.0	26.5	147.2	2.038	2.038	1.528	1.528	1.121	870.2	652.5	652.5	478.7
DN610B LED40S/940UE DIA-E C	3900.0	25.5	152.9	1.962	1.962	1.472	1.472	1.079	837.8	628.5	628.5	460.7
DN610B LED40S/940UE PSU-E WR	4100.0	29.5	139.0	2.269	2.269	1.702	1.702	1.248	968.9	726.8	726.8	532.9
DN610B LED40S/940UE PSD-E WR	4100.0	29.0	141.4	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/940UE DIA-E WR	4100.0	29.0	141.4	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED20S/830 PSU-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4
DN610B LED20S/840 PSU-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4
DN610B LED20S/930 PSU-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4
DN610B LED20S/940 PSU-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4
DN610B LED20S/830UE PSED-E FLR	2100.0	13.0	161.5	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/840UE PSED-E FLR	2200.0	13.0	169.2	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/930UE PSED-E FLR	2000.0	13.0	153.8	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/940UE PSED-E FLR	2100.0	13.0	161.5	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED24S/830UE PSED-E FLR	2400.0	14.8	162.2	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/840UE PSED-E FLR	2500.0	14.8	168.9	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/930UE PSED-E FLR	2400.0	15.0	160.0	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED24S/940UE PSED-E FLR	2400.0	15.0	160.0	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED40S/830UE PSED-E FLR	3900.0	25.5	152.9	1.962	1.962	1.472	1.472	1.079	837.8	628.5	628.5	460.7
DN610B LED40S/840UE PSED-E FLR	4200.0	26.0	161.5	2.0	2.0	1.5	1.5	1.1	854.0	640.5	640.5	469.7

DN610B LED40S/930UE PSED-E FLR	4300.0	30.0	143.3	2.308	2.308	1.731	1.731	1.269	985.5	739.1	739.1	541.9
DN610B LED40S/940UE PSED-E FLR	3900.0	26.5	147.2	2.038	2.038	1.528	1.528	1.121	870.2	652.5	652.5	478.7
DN610B LED20S/830UE DIA-E FLR	2100.0	13.0	161.5	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/830UE PSD-E FLR	2100.0	13.0	161.5	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/840UE DIA-E FLR	2200.0	13.0	169.2	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/840UE PSD-E FLR	2200.0	13.0	169.2	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/930UE PSD-E FLR	2000.0	13.0	153.8	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/930UE DIA-E FLR	2000.0	13.2	151.5	1.015	1.015	0.761	0.761	0.558	433.4	324.9	324.9	238.3
DN610B LED20S/940UE PSD-E FLR	2100.0	13.0	161.5	1.0	1.0	0.75	0.75	0.55	427.0	320.2	320.2	234.9
DN610B LED20S/940UE DIA-E FLR	2100.0	13.2	159.1	1.015	1.015	0.761	0.761	0.558	433.4	324.9	324.9	238.3
DN610B LED24S/830UE PSD-E FLR	2400.0	14.8	162.2	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/830UE DIA-E FLR	2400.0	14.8	162.2	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/840UE PSD-E FLR	2500.0	14.8	168.9	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/840UE DIA-E FLR	2500.0	14.8	168.9	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/930UE PSD-E FLR	2400.0	15.0	160.0	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED24S/930UE DIA-E FLR	2400.0	15.2	157.9	1.169	1.169	0.877	0.877	0.643	499.2	374.5	374.5	274.6
DN610B LED24S/940UE PSD-E FLR	2400.0	15.0	160.0	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED24S/940UE DIA-E FLR	2400.0	15.0	160.0	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED40S/830UE PSU-E FLR	3900.0	25.0	156.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED40S/830UE PSD-E FLR	3900.0	25.5	152.9	1.962	1.962	1.472	1.472	1.079	837.8	628.5	628.5	460.7
DN610B LED40S/830UE DIA-E FLR	3900.0	24.5	159.2	1.885	1.885	1.414	1.414	1.037	804.9	603.8	603.8	442.8
DN610B LED40S/840UE PSU-E FLR	4200.0	25.0	168.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED40S/840UE PSD-E FLR	4200.0	26.0	161.5	2.0	2.0	1.5	1.5	1.1	854.0	640.5	640.5	469.7
DN610B LED40S/840UE DIA-E FLR	4200.0	25.0	168.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8

DN610B LED40S/930UE PSU-E FLR	4300.0	29.5	145.8	2.269	2.269	1.702	1.702	1.248	968.9	726.8	726.8	532.9
DN610B LED40S/930UE PSD-E FLR	4300.0	30.0	143.3	2.308	2.308	1.731	1.731	1.269	985.5	739.1	739.1	541.9
DN610B LED40S/930UE DIA-E FLR	4300.0	28.5	150.9	2.192	2.192	1.644	1.644	1.206	936.0	702.0	702.0	515.0
DN610B LED40S/940UE PSU-E FLR	3900.0	25.5	152.9	1.962	1.962	1.472	1.472	1.079	837.8	628.5	628.5	460.7
DN610B LED40S/940UE PSD-E FLR	3900.0	26.5	147.2	2.038	2.038	1.528	1.528	1.121	870.2	652.5	652.5	478.7
DN610B LED40S/940UE DIA-E FLR	3900.0	25.5	152.9	1.962	1.962	1.472	1.472	1.079	837.8	628.5	628.5	460.7
DN610B LED20S/830UE DIA-E C	1700.0	10.4	163.5	0.8	0.8	0.6	0.6	0.44	341.6	256.2	256.2	187.9
DN610B LED20S/830UE DIA-E WR	2200.0	15.0	146.7	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED20S/830 DIA-E M	2100.0	18.8	111.7	1.446	1.446	1.085	1.085	0.795	617.4	463.3	463.3	339.5
DN610B LED20S/830 DIA-E BKR	2200.0	23.5	93.6	1.808	1.808	1.356	1.356	0.994	772.0	579.0	579.0	424.4
DN610B LED20S/840UE DIA-E C	1800.0	10.4	173.1	0.8	0.8	0.6	0.6	0.44	341.6	256.2	256.2	187.9
DN610B LED20S/840UE DIA-E WR	2300.0	15.0	153.3	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED20S/840 DIA-E M	2100.0	19.0	110.5	1.462	1.462	1.097	1.097	0.804	624.3	468.4	468.4	343.3
DN610B LED20S/840 DIA-E BKR	2300.0	23.5	97.9	1.808	1.808	1.356	1.356	0.994	772.0	579.0	579.0	424.4
DN610B LED20S/930UE DIA-E C	1600.0	10.6	150.9	0.815	0.815	0.611	0.611	0.448	348.0	260.9	260.9	191.3
DN610B LED20S/930UE DIA-E WR	2100.0	15.2	138.2	1.169	1.169	0.877	0.877	0.643	499.2	374.5	374.5	274.6
DN610B LED20S/930 DIA-E M	2100.0	19.0	110.5	1.462	1.462	1.097	1.097	0.804	624.3	468.4	468.4	343.3
DN610B LED20S/930 DIA-E BKR	2100.0	25.0	84.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED20S/940UE DIA-E C	1700.0	10.6	160.4	0.815	0.815	0.611	0.611	0.448	348.0	260.9	260.9	191.3
DN610B LED20S/940UE DIA-E WR	2200.0	15.2	144.7	1.169	1.169	0.877	0.877	0.643	499.2	374.5	374.5	274.6
DN610B LED20S/940 DIA-E M	2100.0	19.0	110.5	1.462	1.462	1.097	1.097	0.804	624.3	468.4	468.4	343.3
DN610B LED20S/940 DIA-E BKR	2200.0	25.0	88.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED24S/830UE DIA-E C	1900.0	11.8	161.0	0.908	0.908	0.681	0.681	0.499	387.7	290.8	290.8	213.1
DN610B LED24S/830UE DIA-E WR	2500.0	16.8	148.8	1.292	1.292	0.969	0.969	0.711	551.7	413.8	413.8	303.6

DN610B LED24S/830 DIA-E M	2300.0	20.5	112.2	1.577	1.577	1.183	1.183	0.867	673.4	505.1	505.1	370.2
DN610B LED24S/830 DIA-E BKR	2000.0	22.5	88.9	1.731	1.731	1.298	1.298	0.952	739.1	554.2	554.2	406.5
DN610B LED24S/840UE DIA-E C	2500.0	14.8	168.9	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/840UE DIA-E WR	2600.0	15.0	173.3	1.154	1.154	0.865	0.865	0.635	492.8	369.4	369.4	271.1
DN610B LED24S/840 DIA-E M	2500.0	20.5	122.0	1.577	1.577	1.183	1.183	0.867	673.4	505.1	505.1	370.2
DN610B LED24S/840 DIA-E BKR	2100.0	22.5	93.3	1.731	1.731	1.298	1.298	0.952	739.1	554.2	554.2	406.5
DN610B LED24S/930UE DIA-E C	2400.0	15.2	157.9	1.169	1.169	0.877	0.877	0.643	499.2	374.5	374.5	274.6
DN610B LED24S/930UE DIA-E WR	1900.0	13.6	139.7	1.046	1.046	0.784	0.784	0.575	446.6	334.8	334.8	245.5
DN610B LED24S/930 DIA-E M	1950.0	18.2	107.1	1.4	1.4	1.05	1.05	0.77	597.8	448.4	448.4	328.8
DN610B LED24S/930 DIA-E BKR	1900.0	23.0	82.6	1.769	1.769	1.327	1.327	0.973	755.4	566.6	566.6	415.5
DN610B LED24S/940UE DIA-E C	1900.0	12.0	158.3	0.923	0.923	0.692	0.692	0.508	394.1	295.5	295.5	216.9
DN610B LED24S/940UE DIA-E WR	1950.0	13.6	143.4	1.046	1.046	0.784	0.784	0.575	446.6	334.8	334.8	245.5
DN610B LED24S/940 DIA-E M	2000.0	18.2	109.9	1.4	1.4	1.05	1.05	0.77	597.8	448.4	448.4	328.8
DN610B LED24S/940 DIA-E BKR	2000.0	23.0	87.0	1.769	1.769	1.327	1.327	0.973	755.4	566.6	566.6	415.5
DN610B LED40S/830UE DIA-E C	3200.0	19.6	163.3	1.508	1.508	1.131	1.131	0.829	643.9	482.9	482.9	354.0
DN610B LED40S/830UE DIA-E WR	3300.0	23.0	143.5	1.769	1.769	1.327	1.327	0.973	755.4	566.6	566.6	415.5
DN610B LED40S/830 DIA-E M	3400.0	30.5	111.5	2.346	2.346	1.76	1.76	1.29	1001.7	751.5	751.5	550.8
DN610B LED40S/840UE DIA-E C	3300.0	20.0	165.0	1.538	1.538	1.153	1.153	0.846	656.7	492.3	492.3	361.2
DN610B LED40S/840UE DIA-E WR	3500.0	23.0	152.2	1.769	1.769	1.327	1.327	0.973	755.4	566.6	566.6	415.5
DN610B LED40S/840 DIA-E M	3400.0	29.0	117.2	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/930UE DIA-E C	3500.0	23.0	152.2	1.769	1.769	1.327	1.327	0.973	755.4	566.6	566.6	415.5
DN610B LED40S/930UE DIA-E WR	3200.0	23.0	139.1	1.769	1.769	1.327	1.327	0.973	755.4	566.6	566.6	415.5
DN610B LED40S/940UE DIA-E C	3100.0	20.5	151.2	1.577	1.577	1.183	1.183	0.867	673.4	505.1	505.1	370.2
DN610B LED40S/940UE DIA-E WR	3300.0	23.5	140.4	1.808	1.808	1.356	1.356	0.994	772.0	579.0	579.0	424.4

DN610B LED20S/830UE DIA-E FLR	1700.0	10.4	163.5	0.8	0.8	0.6	0.6	0.44	341.6	256.2	256.2	187.9
DN610B LED20S/840UE DIA-E FLR	1800.0	10.4	173.1	0.8	0.8	0.6	0.6	0.44	341.6	256.2	256.2	187.9
DN610B LED20S/930UE DIA-E FLR	1600.0	10.6	150.9	0.815	0.815	0.611	0.611	0.448	348.0	260.9	260.9	191.3
DN610B LED20S/940UE DIA-E FLR	1700.0	10.6	160.4	0.815	0.815	0.611	0.611	0.448	348.0	260.9	260.9	191.3
DN610B LED24S/830UE DIA-E FLR	1900.0	11.8	161.0	0.908	0.908	0.681	0.681	0.499	387.7	290.8	290.8	213.1
DN610B LED24S/840UE DIA-E FLR	2500.0	14.8	168.9	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/930UE DIA-E FLR	2400.0	15.2	157.9	1.169	1.169	0.877	0.877	0.643	499.2	374.5	374.5	274.6
DN610B LED24S/940UE DIA-E FLR	1900.0	12.0	158.3	0.923	0.923	0.692	0.692	0.508	394.1	295.5	295.5	216.9
DN610B LED40S/830UE DIA-E FLR	3200.0	19.6	163.3	1.508	1.508	1.131	1.131	0.829	643.9	482.9	482.9	354.0
DN610B LED40S/840UE DIA-E FLR	3300.0	20.0	165.0	1.538	1.538	1.153	1.153	0.846	656.7	492.3	492.3	361.2
DN610B LED40S/930UE DIA-E FLR	3500.0	23.0	152.2	1.769	1.769	1.327	1.327	0.973	755.4	566.6	566.6	415.5
DN610B LED40S/940UE DIA-E FLR	3100.0	20.5	151.2	1.577	1.577	1.183	1.183	0.867	673.4	505.1	505.1	370.2
DN610B LED20S/830UE PSE-E C	2100.0	12.6	166.7	0.969	0.969	0.727	0.727	0.533	413.8	310.4	310.4	227.6
DN610B LED20S/830UE PSE-E WR	2200.0	14.4	152.8	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED20S/830 PSE-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4
DN610B LED20S/840UE PSE-E C	2200.0	12.6	174.6	0.969	0.969	0.727	0.727	0.533	413.8	310.4	310.4	227.6
DN610B LED20S/840UE PSE-E WR	2300.0	14.4	159.7	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED20S/840 PSE-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4
DN610B LED20S/930UE PSE-E C	2000.0	12.8	156.2	0.985	0.985	0.739	0.739	0.542	420.6	315.6	315.6	231.4
DN610B LED20S/930UE PSE-E WR	2100.0	14.6	143.8	1.123	1.123	0.842	0.842	0.618	479.5	359.5	359.5	263.9
DN610B LED20S/930 PSE-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4
DN610B LED20S/940UE PSE-E C	2100.0	12.8	164.1	0.985	0.985	0.739	0.739	0.542	420.6	315.6	315.6	231.4
DN610B LED20S/940UE PSE-E WR	2200.0	14.6	150.7	1.123	1.123	0.842	0.842	0.618	479.5	359.5	359.5	263.9
DN610B LED20S/940 PSE-E M	2100.0	18.0	116.7	1.385	1.385	1.039	1.039	0.762	591.4	443.7	443.7	325.4

DN610B LED24S/830UE PSE-E WVR	2500.0	16.2	154.3	1.246	1.246	0.934	0.934	0.685	532.0	398.8	398.8	292.5
DN610B LED24S/830 PSE-E BKR	2500.0	29.0	86.2	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED20S/830 PSE-E BKR	2200.0	23.5	93.6	1.808	1.808	1.356	1.356	0.994	772.0	579.0	579.0	424.4
DN610B LED20S/840 PSE-E BKR	2300.0	23.5	97.9	1.808	1.808	1.356	1.356	0.994	772.0	579.0	579.0	424.4
DN610B LED20S/930 PSE-E BKR	2100.0	24.0	87.5	1.846	1.846	1.385	1.385	1.015	788.2	591.4	591.4	433.4
DN610B LED20S/940 PSE-E BKR	2200.0	24.0	91.7	1.846	1.846	1.385	1.385	1.015	788.2	591.4	591.4	433.4
DN610B LED24S/830UE PSE-E C	2400.0	14.4	166.7	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED24S/830 PSE-E M	2300.0	19.6	117.3	1.508	1.508	1.131	1.131	0.829	643.9	482.9	482.9	354.0
DN610B LED24S/840UE PSE-E C	2500.0	14.4	173.6	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED24S/840UE PSE-E WVR	2600.0	14.4	180.6	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED24S/840 PSE-E M	2500.0	19.6	127.6	1.508	1.508	1.131	1.131	0.829	643.9	482.9	482.9	354.0
DN610B LED24S/840 PSE-E BKR	2700.0	29.0	93.1	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED24S/930UE PSE-E C	2400.0	14.8	162.2	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/930UE PSE-E WVR	2400.0	16.2	148.1	1.246	1.246	0.934	0.934	0.685	532.0	398.8	398.8	292.5
DN610B LED24S/930 PSE-E M	2400.0	21.5	111.6	1.654	1.654	1.24	1.24	0.91	706.3	529.5	529.5	388.6
DN610B LED24S/930 PSE-E BKR	2400.0	29.0	82.8	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED24S/940UE PSE-E C	2400.0	14.6	164.4	1.123	1.123	0.842	0.842	0.618	479.5	359.5	359.5	263.9
DN610B LED24S/940UE PSE-E WVR	2500.0	16.2	154.3	1.246	1.246	0.934	0.934	0.685	532.0	398.8	398.8	292.5
DN610B LED24S/940 PSE-E M	2500.0	21.5	116.3	1.654	1.654	1.24	1.24	0.91	706.3	529.5	529.5	388.6
DN610B LED24S/940 PSE-E BKR	2500.0	29.0	86.2	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/830UE PSE-E C	3900.0	25.0	156.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED40S/830UE PSE-E WVR	4100.0	29.5	139.0	2.269	2.269	1.702	1.702	1.248	968.9	726.8	726.8	532.9
DN610B LED40S/830 PSE-E M	4000.0	38.0	105.3	2.923	2.923	2.192	2.192	1.608	1248.1	936.0	936.0	686.6
DN610B LED40S/840UE PSE-E C	4200.0	25.0	168.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8

DN610B LED40S/840UE PSE-E WR	4300.0	29.5	145.8	2.269	2.269	1.702	1.702	1.248	968.9	726.8	726.8	532.9
DN610B LED40S/840 PSE-E M	4200.0	36.5	115.1	2.808	2.808	2.106	2.106	1.544	1199.0	899.3	899.3	659.3
DN610B LED40S/930UE PSE-E C	4300.0	29.0	148.3	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/930UE PSE-E WR	3900.0	29.5	132.2	2.269	2.269	1.702	1.702	1.248	968.9	726.8	726.8	532.9
DN610B LED40S/940UE PSE-E C	3900.0	25.5	152.9	1.962	1.962	1.472	1.472	1.079	837.8	628.5	628.5	460.7
DN610B LED40S/940UE PSE-E WR	4100.0	29.5	139.0	2.269	2.269	1.702	1.702	1.248	968.9	726.8	726.8	532.9
DN610B LED20S/830UE PSE-E FLR	2100.0	12.6	166.7	0.969	0.969	0.727	0.727	0.533	413.8	310.4	310.4	227.6
DN610B LED20S/840UE PSE-E FLR	2200.0	12.6	174.6	0.969	0.969	0.727	0.727	0.533	413.8	310.4	310.4	227.6
DN610B LED20S/930UE PSE-E FLR	2000.0	12.8	156.2	0.985	0.985	0.739	0.739	0.542	420.6	315.6	315.6	231.4
DN610B LED20S/940UE PSE-E FLR	2100.0	12.8	164.1	0.985	0.985	0.739	0.739	0.542	420.6	315.6	315.6	231.4
DN610B LED24S/830UE PSE-E FLR	2400.0	14.4	166.7	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED24S/840UE PSE-E FLR	2500.0	14.4	173.6	1.108	1.108	0.831	0.831	0.609	473.1	354.8	354.8	260.0
DN610B LED24S/930UE PSE-E FLR	2400.0	14.8	162.2	1.138	1.138	0.853	0.853	0.626	485.9	364.2	364.2	267.3
DN610B LED24S/940UE PSE-E FLR	2400.0	14.6	164.4	1.123	1.123	0.842	0.842	0.618	479.5	359.5	359.5	263.9
DN610B LED40S/830UE PSE-E FLR	3900.0	25.0	156.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED40S/840UE PSE-E FLR	4200.0	25.0	168.0	1.923	1.923	1.442	1.442	1.058	821.1	615.7	615.7	451.8
DN610B LED40S/930UE PSE-E FLR	4300.0	29.0	148.3	2.231	2.231	1.673	1.673	1.227	952.6	714.4	714.4	523.9
DN610B LED40S/940UE PSE-E FLR	3900.0	25.5	152.9	1.962	1.962	1.472	1.472	1.079	837.8	628.5	628.5	460.7
DN610B LED24S/830 PSU-E M	2300.0	19.6	117.3	1.508	1.508	1.131	1.131	0.829	643.9	482.9	482.9	354.0
DN610B LED24S/840 PSU-E M	2500.0	19.6	127.6	1.508	1.508	1.131	1.131	0.829	643.9	482.9	482.9	354.0
DN610B LED24S/930 PSU-E M	2400.0	21.5	111.6	1.654	1.654	1.24	1.24	0.91	706.3	529.5	529.5	388.6
DN610B LED24S/940 PSU-E M	2500.0	21.5	116.3	1.654	1.654	1.24	1.24	0.91	706.3	529.5	529.5	388.6
DN610B LED24S/830 PSE-E M	2300.0	19.6	117.3	1.508	1.508	1.131	1.131	0.829	643.9	482.9	482.9	354.0
DN610B LED24S/840 PSE-E M	2500.0	19.6	127.6	1.508	1.508	1.131	1.131	0.829	643.9	482.9	482.9	354.0

DN610B LED24S/930 PSE-E M	2400.0	21.5	111.6	1.654	1.654	1.24	1.24	0.91	706.3	529.5	529.5	388.6
DN610B LED24S/940 PSE-E M	2500.0	21.5	116.3	1.654	1.654	1.24	1.24	0.91	706.3	529.5	529.5	388.6
DN610B LED24S/830 PSU-E BKR	2500.0	28.5	87.7	2.192	2.192	1.644	1.644	1.206	936.0	702.0	702.0	515.0

** Note that if the product is non-dimmable, only the values for "NC (No Control)" are valid; if the driver type is PSU, only the values for "NC (No Control)" and "PS (presence sensing)" for are valid.*

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. 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.

$$GSF = \frac{FU_{pep}}{FU_p} = \frac{1,000}{O_{lum}} * \frac{35,000}{RSL}$$

3. Calculate the GWP scaling factor ($PGSF$), by multiplying the PSF by the GSF.

$$PGSF = PSF * GSF$$

4. 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.

$$TSF = PGSF * CSF$$

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

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

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

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)

Configuration	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
DN610B LED20S/830UE PSED-E C	2100.0	13.0	161.5	1.0	0.167	0.125	0.125	0.092	71.3	53.4	53.4	39.3
DN610B LED20S/830UE PSED-E WR	2200.0	14.4	152.8	1.108	0.176	0.132	0.132	0.097	75.2	56.4	56.4	41.4
DN610B LED20S/830 PSED-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED20S/830 PSED-E BKR	2200.0	23.5	93.6	1.808	0.287	0.215	0.215	0.158	122.5	91.8	91.8	67.5
DN610B LED20S/840UE PSED-E C	2200.0	13.0	169.2	1.0	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1

DN610B LED20S/840UE PSED-E WR	2300.0	14.4	159.7	1.108	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED20S/840 PSED-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED20S/840 PSED-E BKR	2300.0	25.0	92.0	1.923	0.292	0.219	0.219	0.161	124.7	93.5	93.5	68.7
DN610B LED20S/930UE PSED-E C	2000.0	13.0	153.8	1.0	0.175	0.131	0.131	0.096	74.7	55.9	55.9	41.0
DN610B LED20S/930UE PSED-E WR	2100.0	14.4	145.8	1.108	0.185	0.139	0.139	0.102	79.0	59.4	59.4	43.6
DN610B LED20S/930 PSED-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED20S/930 PSED-E BKR	2100.0	24.0	87.5	1.846	0.308	0.231	0.231	0.169	131.5	98.6	98.6	72.2
DN610B LED20S/940UE PSED-E C	2100.0	13.0	161.5	1.0	0.167	0.125	0.125	0.092	71.3	53.4	53.4	39.3
DN610B LED20S/940UE PSED-E WR	2200.0	14.4	152.8	1.108	0.176	0.132	0.132	0.097	75.2	56.4	56.4	41.4
DN610B LED20S/940 PSED-E M	2100.0	18.2	115.4	1.4	0.234	0.176	0.176	0.129	99.9	75.2	75.2	55.1
DN610B LED20S/940 PSED-E BKR	2200.0	24.0	91.7	1.846	0.294	0.22	0.22	0.162	125.5	93.9	93.9	69.2
DN610B LED24S/830UE PSED-E C	2400.0	14.8	162.2	1.138	0.166	0.124	0.124	0.091	70.9	52.9	52.9	38.9
DN610B LED24S/830UE PSED-E WR	2500.0	16.2	154.3	1.246	0.174	0.131	0.131	0.096	74.3	55.9	55.9	41.0
DN610B LED24S/830 PSED-E M	2300.0	19.8	116.2	1.523	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED24S/830 PSED-E BKR	2500.0	27.5	90.9	2.115	0.296	0.222	0.222	0.163	126.4	94.8	94.8	69.6
DN610B LED24S/840UE PSED-E C	2500.0	14.8	168.9	1.138	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1
DN610B LED24S/840UE PSED-E WR	2600.0	14.4	180.6	1.108	0.15	0.112	0.112	0.083	64.0	47.8	47.8	35.4
DN610B LED24S/840 PSED-E M	2500.0	19.8	126.3	1.523	0.213	0.16	0.16	0.117	91.0	68.3	68.3	50.0
DN610B LED24S/840 PSED-E BKR	2600.0	27.5	94.5	2.115	0.286	0.214	0.214	0.157	122.1	91.4	91.4	67.0
DN610B LED24S/930UE PSED-E C	2400.0	15.0	160.0	1.154	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED24S/930UE PSED-E WR	2400.0	16.2	148.1	1.246	0.182	0.137	0.137	0.1	77.7	58.5	58.5	42.7
DN610B LED24S/930 PSED-E M	2400.0	22.0	109.1	1.692	0.247	0.185	0.185	0.136	105.5	79.0	79.0	58.1
DN610B LED24S/930 PSED-E BKR	2400.0	27.5	87.3	2.115	0.309	0.232	0.232	0.17	131.9	99.1	99.1	72.6
DN610B LED24S/940UE PSED-E C	2400.0	15.0	160.0	1.154	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3

DN610B LED24S/940UE PSED-E WR	2500.0	16.2	154.3	1.246	0.174	0.131	0.131	0.096	74.3	55.9	55.9	41.0
DN610B LED24S/940 PSED-E M	2500.0	22.0	113.6	1.692	0.237	0.178	0.178	0.13	101.2	76.0	76.0	55.5
DN610B LED24S/940 PSED-E BKR	2500.0	27.5	90.9	2.115	0.296	0.222	0.222	0.163	126.4	94.8	94.8	69.6
DN610B LED40S/830UE PSED-E C	3900.0	25.5	152.9	1.962	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED40S/830UE PSED-E WR	4100.0	29.0	141.4	2.231	0.19	0.143	0.143	0.105	81.1	61.1	61.1	44.8
DN610B LED40S/830 PSED-E M	4200.0	38.5	109.1	2.962	0.246	0.184	0.184	0.135	105.0	78.6	78.6	57.6
DN610B LED40S/840UE PSED-E C	4200.0	26.0	161.5	2.0	0.166	0.124	0.124	0.091	70.9	52.9	52.9	38.9
DN610B LED40S/840UE PSED-E WR	4300.0	29.0	148.3	2.231	0.181	0.136	0.136	0.1	77.3	58.1	58.1	42.7
DN610B LED40S/840 PSED-E M	4200.0	36.5	115.1	2.808	0.233	0.175	0.175	0.128	99.5	74.7	74.7	54.7
DN610B LED40S/930UE PSED-E C	4300.0	30.0	143.3	2.308	0.187	0.14	0.14	0.103	79.8	59.8	59.8	44.0
DN610B LED40S/930UE PSED-E WR	3900.0	29.0	134.5	2.231	0.201	0.151	0.151	0.111	85.8	64.5	64.5	47.4
DN610B LED40S/940UE PSED-E C	3900.0	26.5	147.2	2.038	0.183	0.137	0.137	0.101	78.1	58.5	58.5	43.1
DN610B LED40S/940UE PSED-E WR	4100.0	29.0	141.4	2.231	0.19	0.143	0.143	0.105	81.1	61.1	61.1	44.8
DN610B LED20S/830UE DIA-E C	2100.0	13.0	161.5	1.0	0.167	0.125	0.125	0.092	71.3	53.4	53.4	39.3
DN610B LED20S/830UE PSD-E C	2100.0	13.0	161.5	1.0	0.167	0.125	0.125	0.092	71.3	53.4	53.4	39.3
DN610B LED20S/830UE DIA-E WR	2200.0	15.0	146.7	1.154	0.183	0.137	0.137	0.101	78.1	58.5	58.5	43.1
DN610B LED20S/830UE PSD-E WR	2200.0	14.4	152.8	1.108	0.176	0.132	0.132	0.097	75.2	56.4	56.4	41.4
DN610B LED20S/830 DIA-E M	2100.0	18.8	111.7	1.446	0.241	0.181	0.181	0.133	102.9	77.3	77.3	56.8
DN610B LED20S/830 PSD-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED20S/830 PSU-E BKR	2200.0	23.5	93.6	1.808	0.287	0.215	0.215	0.158	122.5	91.8	91.8	67.5
DN610B LED20S/830 PSD-E BKR	2200.0	24.5	89.8	1.885	0.3	0.225	0.225	0.165	128.1	96.1	96.1	70.5
DN610B LED20S/830 DIA-E BKR	2200.0	23.5	93.6	1.808	0.287	0.215	0.215	0.158	122.5	91.8	91.8	67.5
DN610B LED20S/840UE DIA-E C	2200.0	13.0	169.2	1.0	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1
DN610B LED20S/840UE PSD-E C	2200.0	13.0	169.2	1.0	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1

DN610B LED20S/840UE DIA-E WR	2300.0	15.0	153.3	1.154	0.175	0.131	0.131	0.096	74.7	55.9	55.9	41.0
DN610B LED20S/840UE PSD-E WR	2300.0	14.4	159.7	1.108	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED20S/840 DIA-E M	2100.0	19.0	110.5	1.462	0.244	0.183	0.183	0.134	104.2	78.1	78.1	57.2
DN610B LED20S/840 PSD-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED20S/840 PSU-E BKR	2300.0	23.5	97.9	1.808	0.275	0.206	0.206	0.151	117.4	88.0	88.0	64.5
DN610B LED20S/840 PSD-E BKR	2300.0	25.0	92.0	1.923	0.292	0.219	0.219	0.161	124.7	93.5	93.5	68.7
DN610B LED20S/840 DIA-E BKR	2300.0	23.5	97.9	1.808	0.275	0.206	0.206	0.151	117.4	88.0	88.0	64.5
DN610B LED20S/930UE PSD-E C	2000.0	13.0	153.8	1.0	0.175	0.131	0.131	0.096	74.7	55.9	55.9	41.0
DN610B LED20S/930UE DIA-E C	2000.0	13.2	151.5	1.015	0.178	0.134	0.134	0.098	76.0	57.2	57.2	41.8
DN610B LED20S/930UE PSD-E WR	2100.0	14.4	145.8	1.108	0.185	0.139	0.139	0.102	79.0	59.4	59.4	43.6
DN610B LED20S/930UE DIA-E WR	2100.0	15.2	138.2	1.169	0.195	0.146	0.146	0.107	83.3	62.3	62.3	45.7
DN610B LED20S/930 PSD-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED20S/930 DIA-E M	2100.0	19.0	110.5	1.462	0.244	0.183	0.183	0.134	104.2	78.1	78.1	57.2
DN610B LED20S/930 PSU-E BKR	2100.0	24.0	87.5	1.846	0.308	0.231	0.231	0.169	131.5	98.6	98.6	72.2
DN610B LED20S/930 PSD-E BKR	2100.0	24.0	87.5	1.846	0.308	0.231	0.231	0.169	131.5	98.6	98.6	72.2
DN610B LED20S/930 DIA-E BKR	2100.0	25.0	84.0	1.923	0.321	0.241	0.241	0.177	137.1	102.9	102.9	75.6
DN610B LED20S/940UE PSD-E C	2100.0	13.0	161.5	1.0	0.167	0.125	0.125	0.092	71.3	53.4	53.4	39.3
DN610B LED20S/940UE DIA-E C	2100.0	13.2	159.1	1.015	0.17	0.128	0.128	0.094	72.6	54.7	54.7	40.1
DN610B LED20S/940UE PSD-E WR	2200.0	14.4	152.8	1.108	0.176	0.132	0.132	0.097	75.2	56.4	56.4	41.4
DN610B LED20S/940UE DIA-E WR	2200.0	15.2	144.7	1.169	0.186	0.14	0.14	0.102	79.4	59.8	59.8	43.6
DN610B LED20S/940 PSD-E M	2100.0	18.2	115.4	1.4	0.234	0.176	0.176	0.129	99.9	75.2	75.2	55.1
DN610B LED20S/940 DIA-E M	2100.0	19.0	110.5	1.462	0.244	0.183	0.183	0.134	104.2	78.1	78.1	57.2
DN610B LED20S/940 PSU-E BKR	2200.0	24.0	91.7	1.846	0.294	0.22	0.22	0.162	125.5	93.9	93.9	69.2
DN610B LED20S/940 PSD-E BKR	2200.0	24.0	91.7	1.846	0.294	0.22	0.22	0.162	125.5	93.9	93.9	69.2

DN610B LED20S/940 DIA-E BKR	2200.0	25.0	88.0	1.923	0.306	0.229	0.229	0.168	130.7	97.8	97.8	71.7
DN610B LED24S/830UE PSD-E C	2400.0	14.8	162.2	1.138	0.166	0.124	0.124	0.091	70.9	52.9	52.9	38.9
DN610B LED24S/830UE DIA-E C	2400.0	14.8	162.2	1.138	0.166	0.124	0.124	0.091	70.9	52.9	52.9	38.9
DN610B LED24S/830UE PSD-E WR	2500.0	16.2	154.3	1.246	0.174	0.131	0.131	0.096	74.3	55.9	55.9	41.0
DN610B LED24S/830UE DIA-E WR	2500.0	16.8	148.8	1.292	0.181	0.136	0.136	0.1	77.3	58.1	58.1	42.7
DN610B LED24S/830 PSU-E M	2300.0	19.6	117.3	1.508	0.229	0.172	0.172	0.126	97.8	73.4	73.4	53.8
DN610B LED24S/830 PSD-E M	2300.0	19.8	116.2	1.523	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED24S/830 DIA-E M	2300.0	20.5	112.2	1.577	0.24	0.18	0.18	0.132	102.5	76.9	76.9	56.4
DN610B LED24S/830 PSD-E BKR	2500.0	27.5	90.9	2.115	0.296	0.222	0.222	0.163	126.4	94.8	94.8	69.6
DN610B LED24S/830 DIA-E BKR	2500.0	28.5	87.7	2.192	0.307	0.23	0.23	0.169	131.1	98.2	98.2	72.2
DN610B LED24S/840UE PSD-E C	2500.0	14.8	168.9	1.138	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1
DN610B LED24S/840UE DIA-E C	2500.0	14.8	168.9	1.138	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1
DN610B LED24S/840UE PSD-E WR	2600.0	14.4	180.6	1.108	0.15	0.112	0.112	0.083	64.0	47.8	47.8	35.4
DN610B LED24S/840UE DIA-E WR	2600.0	15.0	173.3	1.154	0.156	0.117	0.117	0.086	66.6	50.0	50.0	36.7
DN610B LED24S/840 PSU-E M	2500.0	19.8	126.3	1.523	0.213	0.16	0.16	0.117	91.0	68.3	68.3	50.0
DN610B LED24S/840 PSD-E M	2500.0	19.8	126.3	1.523	0.213	0.16	0.16	0.117	91.0	68.3	68.3	50.0
DN610B LED24S/840 DIA-E M	2500.0	20.5	122.0	1.577	0.221	0.166	0.166	0.122	94.4	70.9	70.9	52.1
DN610B LED24S/840 PSU-E BKR	2700.0	28.5	94.7	2.192	0.285	0.214	0.214	0.157	121.7	91.4	91.4	67.0
DN610B LED24S/840 PSD-E BKR	2600.0	27.5	94.5	2.115	0.286	0.214	0.214	0.157	122.1	91.4	91.4	67.0
DN610B LED24S/840 DIA-E BKR	2600.0	28.5	91.2	2.192	0.296	0.222	0.222	0.163	126.4	94.8	94.8	69.6
DN610B LED24S/930UE PSD-E C	2400.0	15.0	160.0	1.154	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED24S/930UE DIA-E C	2400.0	15.2	157.9	1.169	0.171	0.128	0.128	0.094	73.0	54.7	54.7	40.1
DN610B LED24S/930UE PSD-E WR	2400.0	16.2	148.1	1.246	0.182	0.137	0.137	0.1	77.7	58.5	58.5	42.7
DN610B LED24S/930UE DIA-E WR	2400.0	17.0	141.2	1.308	0.191	0.143	0.143	0.105	81.6	61.1	61.1	44.8

DN610B LED24S/930 PSU-E M	2400.0	21.5	111.6	1.654	0.241	0.181	0.181	0.133	102.9	77.3	77.3	56.8
DN610B LED24S/930 PSD-E M	2400.0	22.0	109.1	1.692	0.247	0.185	0.185	0.136	105.5	79.0	79.0	58.1
DN610B LED24S/930 DIA-E M	2400.0	22.5	106.7	1.731	0.253	0.19	0.19	0.139	108.0	81.1	81.1	59.4
DN610B LED24S/930 PSU-E BKR	2400.0	29.0	82.8	2.231	0.326	0.244	0.244	0.179	139.2	104.2	104.2	76.4
DN610B LED24S/930 PSD-E BKR	2400.0	27.5	87.3	2.115	0.309	0.232	0.232	0.17	131.9	99.1	99.1	72.6
DN610B LED24S/930 DIA-E BKR	2400.0	28.5	84.2	2.192	0.32	0.24	0.24	0.176	136.6	102.5	102.5	75.2
DN610B LED24S/940UE PSD-E C	2400.0	15.0	160.0	1.154	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED24S/940UE DIA-E C	2400.0	15.0	160.0	1.154	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED24S/940UE PSD-E WR	2500.0	16.2	154.3	1.246	0.174	0.131	0.131	0.096	74.3	55.9	55.9	41.0
DN610B LED24S/940UE DIA-E WR	2500.0	17.0	147.1	1.308	0.183	0.137	0.137	0.101	78.1	58.5	58.5	43.1
DN610B LED24S/940 PSU-E M	2500.0	21.5	116.3	1.654	0.232	0.174	0.174	0.128	99.1	74.3	74.3	54.7
DN610B LED24S/940 PSD-E M	2500.0	22.0	113.6	1.692	0.237	0.178	0.178	0.13	101.2	76.0	76.0	55.5
DN610B LED24S/940 DIA-E M	2500.0	23.0	108.7	1.769	0.248	0.186	0.186	0.136	105.9	79.4	79.4	58.1
DN610B LED24S/940 PSU-E BKR	2500.0	29.0	86.2	2.231	0.312	0.234	0.234	0.172	133.2	99.9	99.9	73.4
DN610B LED24S/940 PSD-E BKR	2500.0	27.5	90.9	2.115	0.296	0.222	0.222	0.163	126.4	94.8	94.8	69.6
DN610B LED24S/940 DIA-E BKR	2500.0	29.0	86.2	2.231	0.312	0.234	0.234	0.172	133.2	99.9	99.9	73.4
DN610B LED40S/830UE PSU-E C	3900.0	25.0	156.0	1.923	0.173	0.13	0.13	0.095	73.9	55.5	55.5	40.6
DN610B LED40S/830UE PSD-E C	3900.0	25.5	152.9	1.962	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED40S/830UE DIA-E C	3900.0	24.5	159.2	1.885	0.17	0.128	0.128	0.094	72.6	54.7	54.7	40.1
DN610B LED40S/830UE PSU-E WR	4100.0	29.5	139.0	2.269	0.193	0.145	0.145	0.106	82.4	61.9	61.9	45.3
DN610B LED40S/830UE PSD-E WR	4100.0	29.0	141.4	2.231	0.19	0.143	0.143	0.105	81.1	61.1	61.1	44.8
DN610B LED40S/830UE DIA-E WR	4100.0	28.5	143.9	2.192	0.186	0.14	0.14	0.102	79.4	59.8	59.8	43.6
DN610B LED40S/830 PSU-E M	4000.0	38.0	105.3	2.923	0.254	0.191	0.191	0.14	108.5	81.6	81.6	59.8
DN610B LED40S/830 PSD-E M	4200.0	38.5	109.1	2.962	0.246	0.184	0.184	0.135	105.0	78.6	78.6	57.6

DN610B LED40S/830 DIA-E M	4200.0	38.5	109.1	2.962	0.246	0.184	0.184	0.135	105.0	78.6	78.6	57.6
DN610B LED40S/840UE PSU-E C	4200.0	25.0	168.0	1.923	0.16	0.12	0.12	0.088	68.3	51.2	51.2	37.6
DN610B LED40S/840UE PSD-E C	4200.0	26.0	161.5	2.0	0.166	0.124	0.124	0.091	70.9	52.9	52.9	38.9
DN610B LED40S/840UE DIA-E C	4200.0	25.0	168.0	1.923	0.16	0.12	0.12	0.088	68.3	51.2	51.2	37.6
DN610B LED40S/840UE PSU-E WR	4300.0	29.5	145.8	2.269	0.184	0.138	0.138	0.101	78.6	58.9	58.9	43.1
DN610B LED40S/840UE PSD-E WR	4300.0	29.0	148.3	2.231	0.181	0.136	0.136	0.1	77.3	58.1	58.1	42.7
DN610B LED40S/840UE DIA-E WR	4300.0	28.5	150.9	2.192	0.178	0.134	0.134	0.098	76.0	57.2	57.2	41.8
DN610B LED40S/840 PSU-E M	4200.0	36.5	115.1	2.808	0.233	0.175	0.175	0.128	99.5	74.7	74.7	54.7
DN610B LED40S/840 PSD-E M	4200.0	36.5	115.1	2.808	0.233	0.175	0.175	0.128	99.5	74.7	74.7	54.7
DN610B LED40S/840 DIA-E M	4200.0	36.5	115.1	2.808	0.233	0.175	0.175	0.128	99.5	74.7	74.7	54.7
DN610B LED40S/930UE PSU-E C	4300.0	29.5	145.8	2.269	0.184	0.138	0.138	0.101	78.6	58.9	58.9	43.1
DN610B LED40S/930UE PSD-E C	4300.0	30.0	143.3	2.308	0.187	0.14	0.14	0.103	79.8	59.8	59.8	44.0
DN610B LED40S/930UE DIA-E C	4300.0	28.5	150.9	2.192	0.178	0.134	0.134	0.098	76.0	57.2	57.2	41.8
DN610B LED40S/930UE PSU-E WR	3900.0	29.5	132.2	2.269	0.204	0.153	0.153	0.112	87.1	65.3	65.3	47.8
DN610B LED40S/930UE PSD-E WR	3900.0	29.0	134.5	2.231	0.201	0.151	0.151	0.111	85.8	64.5	64.5	47.4
DN610B LED40S/930UE DIA-E WR	3900.0	29.0	134.5	2.231	0.201	0.151	0.151	0.111	85.8	64.5	64.5	47.4
DN610B LED40S/940UE PSU-E C	3900.0	25.5	152.9	1.962	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED40S/940UE PSD-E C	3900.0	26.5	147.2	2.038	0.183	0.137	0.137	0.101	78.1	58.5	58.5	43.1
DN610B LED40S/940UE DIA-E C	3900.0	25.5	152.9	1.962	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED40S/940UE PSU-E WR	4100.0	29.5	139.0	2.269	0.193	0.145	0.145	0.106	82.4	61.9	61.9	45.3
DN610B LED40S/940UE PSD-E WR	4100.0	29.0	141.4	2.231	0.19	0.143	0.143	0.105	81.1	61.1	61.1	44.8
DN610B LED40S/940UE DIA-E WR	4100.0	29.0	141.4	2.231	0.19	0.143	0.143	0.105	81.1	61.1	61.1	44.8
DN610B LED20S/830 PSU-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED20S/840 PSU-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2

DN610B LED20S/930 PSU-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED20S/940 PSU-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED20S/830UE PSED-E FLR	2100.0	13.0	161.5	1.0	0.167	0.125	0.125	0.092	71.3	53.4	53.4	39.3
DN610B LED20S/840UE PSED-E FLR	2200.0	13.0	169.2	1.0	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1
DN610B LED20S/930UE PSED-E FLR	2000.0	13.0	153.8	1.0	0.175	0.131	0.131	0.096	74.7	55.9	55.9	41.0
DN610B LED20S/940UE PSED-E FLR	2100.0	13.0	161.5	1.0	0.167	0.125	0.125	0.092	71.3	53.4	53.4	39.3
DN610B LED24S/830UE PSED-E FLR	2400.0	14.8	162.2	1.138	0.166	0.124	0.124	0.091	70.9	52.9	52.9	38.9
DN610B LED24S/840UE PSED-E FLR	2500.0	14.8	168.9	1.138	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1
DN610B LED24S/930UE PSED-E FLR	2400.0	15.0	160.0	1.154	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED24S/940UE PSED-E FLR	2400.0	15.0	160.0	1.154	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED40S/830UE PSED-E FLR	3900.0	25.5	152.9	1.962	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED40S/840UE PSED-E FLR	4200.0	26.0	161.5	2.0	0.166	0.124	0.124	0.091	70.9	52.9	52.9	38.9
DN610B LED40S/930UE PSED-E FLR	4300.0	30.0	143.3	2.308	0.187	0.14	0.14	0.103	79.8	59.8	59.8	44.0
DN610B LED40S/940UE PSED-E FLR	3900.0	26.5	147.2	2.038	0.183	0.137	0.137	0.101	78.1	58.5	58.5	43.1
DN610B LED20S/830UE DIA-E FLR	2100.0	13.0	161.5	1.0	0.167	0.125	0.125	0.092	71.3	53.4	53.4	39.3
DN610B LED20S/830UE PSD-E FLR	2100.0	13.0	161.5	1.0	0.167	0.125	0.125	0.092	71.3	53.4	53.4	39.3
DN610B LED20S/840UE DIA-E FLR	2200.0	13.0	169.2	1.0	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1
DN610B LED20S/840UE PSD-E FLR	2200.0	13.0	169.2	1.0	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1
DN610B LED20S/930UE PSD-E FLR	2000.0	13.0	153.8	1.0	0.175	0.131	0.131	0.096	74.7	55.9	55.9	41.0
DN610B LED20S/930UE DIA-E FLR	2000.0	13.2	151.5	1.015	0.178	0.134	0.134	0.098	76.0	57.2	57.2	41.8
DN610B LED20S/940UE PSD-E FLR	2100.0	13.0	161.5	1.0	0.167	0.125	0.125	0.092	71.3	53.4	53.4	39.3
DN610B LED20S/940UE DIA-E FLR	2100.0	13.2	159.1	1.015	0.17	0.128	0.128	0.094	72.6	54.7	54.7	40.1
DN610B LED24S/830UE PSD-E FLR	2400.0	14.8	162.2	1.138	0.166	0.124	0.124	0.091	70.9	52.9	52.9	38.9
DN610B LED24S/830UE DIA-E FLR	2400.0	14.8	162.2	1.138	0.166	0.124	0.124	0.091	70.9	52.9	52.9	38.9

DN610B LED24S/840UE PSD-E FLR	2500.0	14.8	168.9	1.138	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1
DN610B LED24S/840UE DIA-E FLR	2500.0	14.8	168.9	1.138	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1
DN610B LED24S/930UE PSD-E FLR	2400.0	15.0	160.0	1.154	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED24S/930UE DIA-E FLR	2400.0	15.2	157.9	1.169	0.171	0.128	0.128	0.094	73.0	54.7	54.7	40.1
DN610B LED24S/940UE PSD-E FLR	2400.0	15.0	160.0	1.154	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED24S/940UE DIA-E FLR	2400.0	15.0	160.0	1.154	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED40S/830UE PSU-E FLR	3900.0	25.0	156.0	1.923	0.173	0.13	0.13	0.095	73.9	55.5	55.5	40.6
DN610B LED40S/830UE PSD-E FLR	3900.0	25.5	152.9	1.962	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED40S/830UE DIA-E FLR	3900.0	24.5	159.2	1.885	0.17	0.128	0.128	0.094	72.6	54.7	54.7	40.1
DN610B LED40S/840UE PSU-E FLR	4200.0	25.0	168.0	1.923	0.16	0.12	0.12	0.088	68.3	51.2	51.2	37.6
DN610B LED40S/840UE PSD-E FLR	4200.0	26.0	161.5	2.0	0.166	0.124	0.124	0.091	70.9	52.9	52.9	38.9
DN610B LED40S/840UE DIA-E FLR	4200.0	25.0	168.0	1.923	0.16	0.12	0.12	0.088	68.3	51.2	51.2	37.6
DN610B LED40S/930UE PSU-E FLR	4300.0	29.5	145.8	2.269	0.184	0.138	0.138	0.101	78.6	58.9	58.9	43.1
DN610B LED40S/930UE PSD-E FLR	4300.0	30.0	143.3	2.308	0.187	0.14	0.14	0.103	79.8	59.8	59.8	44.0
DN610B LED40S/930UE DIA-E FLR	4300.0	28.5	150.9	2.192	0.178	0.134	0.134	0.098	76.0	57.2	57.2	41.8
DN610B LED40S/940UE PSU-E FLR	3900.0	25.5	152.9	1.962	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED40S/940UE PSD-E FLR	3900.0	26.5	147.2	2.038	0.183	0.137	0.137	0.101	78.1	58.5	58.5	43.1
DN610B LED40S/940UE DIA-E FLR	3900.0	25.5	152.9	1.962	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED20S/830UE DIA-E C	1700.0	10.4	163.5	0.8	0.165	0.124	0.124	0.091	70.5	52.9	52.9	38.9
DN610B LED20S/830UE DIA-E WR	2200.0	15.0	146.7	1.154	0.183	0.137	0.137	0.101	78.1	58.5	58.5	43.1
DN610B LED20S/830 DIA-E M	2100.0	18.8	111.7	1.446	0.241	0.181	0.181	0.133	102.9	77.3	77.3	56.8
DN610B LED20S/830 DIA-E BKR	2200.0	23.5	93.6	1.808	0.287	0.215	0.215	0.158	122.5	91.8	91.8	67.5
DN610B LED20S/840UE DIA-E C	1800.0	10.4	173.1	0.8	0.155	0.116	0.116	0.085	66.2	49.5	49.5	36.3
DN610B LED20S/840UE DIA-E WR	2300.0	15.0	153.3	1.154	0.175	0.131	0.131	0.096	74.7	55.9	55.9	41.0

DN610B LED20S/840 DIA-E M	2100.0	19.0	110.5	1.462	0.244	0.183	0.183	0.134	104.2	78.1	78.1	57.2
DN610B LED20S/840 DIA-E BKR	2300.0	23.5	97.9	1.808	0.275	0.206	0.206	0.151	117.4	88.0	88.0	64.5
DN610B LED20S/930UE DIA-E C	1600.0	10.6	150.9	0.815	0.178	0.134	0.134	0.098	76.0	57.2	57.2	41.8
DN610B LED20S/930UE DIA-E WR	2100.0	15.2	138.2	1.169	0.195	0.146	0.146	0.107	83.3	62.3	62.3	45.7
DN610B LED20S/930 DIA-E M	2100.0	19.0	110.5	1.462	0.244	0.183	0.183	0.134	104.2	78.1	78.1	57.2
DN610B LED20S/930 DIA-E BKR	2100.0	25.0	84.0	1.923	0.321	0.241	0.241	0.177	137.1	102.9	102.9	75.6
DN610B LED20S/940UE DIA-E C	1700.0	10.6	160.4	0.815	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED20S/940UE DIA-E WR	2200.0	15.2	144.7	1.169	0.186	0.14	0.14	0.102	79.4	59.8	59.8	43.6
DN610B LED20S/940 DIA-E M	2100.0	19.0	110.5	1.462	0.244	0.183	0.183	0.134	104.2	78.1	78.1	57.2
DN610B LED20S/940 DIA-E BKR	2200.0	25.0	88.0	1.923	0.306	0.229	0.229	0.168	130.7	97.8	97.8	71.7
DN610B LED24S/830UE DIA-E C	1900.0	11.8	161.0	0.908	0.167	0.125	0.125	0.092	71.3	53.4	53.4	39.3
DN610B LED24S/830UE DIA-E WR	2500.0	16.8	148.8	1.292	0.181	0.136	0.136	0.1	77.3	58.1	58.1	42.7
DN610B LED24S/830 DIA-E M	2300.0	20.5	112.2	1.577	0.24	0.18	0.18	0.132	102.5	76.9	76.9	56.4
DN610B LED24S/830 DIA-E BKR	2000.0	22.5	88.9	1.731	0.303	0.227	0.227	0.167	129.4	96.9	96.9	71.3
DN610B LED24S/840UE DIA-E C	2500.0	14.8	168.9	1.138	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1
DN610B LED24S/840UE DIA-E WR	2600.0	15.0	173.3	1.154	0.156	0.117	0.117	0.086	66.6	50.0	50.0	36.7
DN610B LED24S/840 DIA-E M	2500.0	20.5	122.0	1.577	0.221	0.166	0.166	0.122	94.4	70.9	70.9	52.1
DN610B LED24S/840 DIA-E BKR	2100.0	22.5	93.3	1.731	0.289	0.217	0.217	0.159	123.4	92.7	92.7	67.9
DN610B LED24S/930UE DIA-E C	2400.0	15.2	157.9	1.169	0.171	0.128	0.128	0.094	73.0	54.7	54.7	40.1
DN610B LED24S/930UE DIA-E WR	1900.0	13.6	139.7	1.046	0.192	0.144	0.144	0.106	82.0	61.5	61.5	45.3
DN610B LED24S/930 DIA-E M	1950.0	18.2	107.1	1.4	0.251	0.188	0.188	0.138	107.2	80.3	80.3	58.9
DN610B LED24S/930 DIA-E BKR	1900.0	23.0	82.6	1.769	0.325	0.244	0.244	0.179	138.8	104.2	104.2	76.4
DN610B LED24S/940UE DIA-E C	1900.0	12.0	158.3	0.923	0.17	0.128	0.128	0.094	72.6	54.7	54.7	40.1
DN610B LED24S/940UE DIA-E WR	1950.0	13.6	143.4	1.046	0.187	0.14	0.14	0.103	79.8	59.8	59.8	44.0

DN610B LED24S/940 DIA-E M	2000.0	18.2	109.9	1.4	0.245	0.184	0.184	0.135	104.6	78.6	78.6	57.6
DN610B LED24S/940 DIA-E BKR	2000.0	23.0	87.0	1.769	0.31	0.232	0.232	0.171	132.4	99.1	99.1	73.0
DN610B LED40S/830UE DIA-E C	3200.0	19.6	163.3	1.508	0.164	0.123	0.123	0.09	70.0	52.5	52.5	38.4
DN610B LED40S/830UE DIA-E WR	3300.0	23.0	143.5	1.769	0.188	0.141	0.141	0.103	80.3	60.2	60.2	44.0
DN610B LED40S/830 DIA-E M	3400.0	30.5	111.5	2.346	0.242	0.181	0.181	0.133	103.3	77.3	77.3	56.8
DN610B LED40S/840UE DIA-E C	3300.0	20.0	165.0	1.538	0.163	0.122	0.122	0.09	69.6	52.1	52.1	38.4
DN610B LED40S/840UE DIA-E WR	3500.0	23.0	152.2	1.769	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED40S/840 DIA-E M	3400.0	29.0	117.2	2.231	0.23	0.173	0.173	0.127	98.2	73.9	73.9	54.2
DN610B LED40S/930UE DIA-E C	3500.0	23.0	152.2	1.769	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED40S/930UE DIA-E WR	3200.0	23.0	139.1	1.769	0.193	0.145	0.145	0.106	82.4	61.9	61.9	45.3
DN610B LED40S/940UE DIA-E C	3100.0	20.5	151.2	1.577	0.178	0.134	0.134	0.098	76.0	57.2	57.2	41.8
DN610B LED40S/940UE DIA-E WR	3300.0	23.5	140.4	1.808	0.192	0.144	0.144	0.106	82.0	61.5	61.5	45.3
DN610B LED20S/830UE DIA-E FLR	1700.0	10.4	163.5	0.8	0.165	0.124	0.124	0.091	70.5	52.9	52.9	38.9
DN610B LED20S/840UE DIA-E FLR	1800.0	10.4	173.1	0.8	0.155	0.116	0.116	0.085	66.2	49.5	49.5	36.3
DN610B LED20S/930UE DIA-E FLR	1600.0	10.6	150.9	0.815	0.178	0.134	0.134	0.098	76.0	57.2	57.2	41.8
DN610B LED20S/940UE DIA-E FLR	1700.0	10.6	160.4	0.815	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED24S/830UE DIA-E FLR	1900.0	11.8	161.0	0.908	0.167	0.125	0.125	0.092	71.3	53.4	53.4	39.3
DN610B LED24S/840UE DIA-E FLR	2500.0	14.8	168.9	1.138	0.159	0.119	0.119	0.087	67.9	50.8	50.8	37.1
DN610B LED24S/930UE DIA-E FLR	2400.0	15.2	157.9	1.169	0.171	0.128	0.128	0.094	73.0	54.7	54.7	40.1
DN610B LED24S/940UE DIA-E FLR	1900.0	12.0	158.3	0.923	0.17	0.128	0.128	0.094	72.6	54.7	54.7	40.1
DN610B LED40S/830UE DIA-E FLR	3200.0	19.6	163.3	1.508	0.164	0.123	0.123	0.09	70.0	52.5	52.5	38.4
DN610B LED40S/840UE DIA-E FLR	3300.0	20.0	165.0	1.538	0.163	0.122	0.122	0.09	69.6	52.1	52.1	38.4
DN610B LED40S/930UE DIA-E FLR	3500.0	23.0	152.2	1.769	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED40S/940UE DIA-E FLR	3100.0	20.5	151.2	1.577	0.178	0.134	0.134	0.098	76.0	57.2	57.2	41.8

DN610B LED20S/830UE PSE-E C	2100.0	12.6	166.7	0.969	0.162	0.121	0.121	0.089	69.2	51.7	51.7	38.0
DN610B LED20S/830UE PSE-E WR	2200.0	14.4	152.8	1.108	0.176	0.132	0.132	0.097	75.2	56.4	56.4	41.4
DN610B LED20S/830 PSE-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED20S/840UE PSE-E C	2200.0	12.6	174.6	0.969	0.154	0.115	0.115	0.085	65.8	49.1	49.1	36.3
DN610B LED20S/840UE PSE-E WR	2300.0	14.4	159.7	1.108	0.168	0.126	0.126	0.092	71.7	53.8	53.8	39.3
DN610B LED20S/840 PSE-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED20S/930UE PSE-E C	2000.0	12.8	156.2	0.985	0.172	0.129	0.129	0.095	73.4	55.1	55.1	40.6
DN610B LED20S/930UE PSE-E WR	2100.0	14.6	143.8	1.123	0.188	0.141	0.141	0.103	80.3	60.2	60.2	44.0
DN610B LED20S/930 PSE-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED20S/940UE PSE-E C	2100.0	12.8	164.1	0.985	0.164	0.123	0.123	0.09	70.0	52.5	52.5	38.4
DN610B LED20S/940UE PSE-E WR	2200.0	14.6	150.7	1.123	0.179	0.134	0.134	0.098	76.4	57.2	57.2	41.8
DN610B LED20S/940 PSE-E M	2100.0	18.0	116.7	1.385	0.231	0.173	0.173	0.127	98.6	73.9	73.9	54.2
DN610B LED24S/830UE PSE-E WR	2500.0	16.2	154.3	1.246	0.174	0.131	0.131	0.096	74.3	55.9	55.9	41.0
DN610B LED24S/830 PSE-E BKR	2500.0	29.0	86.2	2.231	0.312	0.234	0.234	0.172	133.2	99.9	99.9	73.4
DN610B LED20S/830 PSE-E BKR	2200.0	23.5	93.6	1.808	0.287	0.215	0.215	0.158	122.5	91.8	91.8	67.5
DN610B LED20S/840 PSE-E BKR	2300.0	23.5	97.9	1.808	0.275	0.206	0.206	0.151	117.4	88.0	88.0	64.5
DN610B LED20S/930 PSE-E BKR	2100.0	24.0	87.5	1.846	0.308	0.231	0.231	0.169	131.5	98.6	98.6	72.2
DN610B LED20S/940 PSE-E BKR	2200.0	24.0	91.7	1.846	0.294	0.22	0.22	0.162	125.5	93.9	93.9	69.2
DN610B LED24S/830UE PSE-E C	2400.0	14.4	166.7	1.108	0.162	0.121	0.121	0.089	69.2	51.7	51.7	38.0
DN610B LED24S/830 PSE-E M	2300.0	19.6	117.3	1.508	0.229	0.172	0.172	0.126	97.8	73.4	73.4	53.8
DN610B LED24S/840UE PSE-E C	2500.0	14.4	173.6	1.108	0.155	0.116	0.116	0.085	66.2	49.5	49.5	36.3
DN610B LED24S/840UE PSE-E WR	2600.0	14.4	180.6	1.108	0.15	0.112	0.112	0.083	64.0	47.8	47.8	35.4
DN610B LED24S/840 PSE-E M	2500.0	19.6	127.6	1.508	0.211	0.158	0.158	0.116	90.1	67.5	67.5	49.5
DN610B LED24S/840 PSE-E BKR	2700.0	29.0	93.1	2.231	0.29	0.217	0.217	0.16	123.8	92.7	92.7	68.3

DN610B LED24S/930UE PSE-E C	2400.0	14.8	162.2	1.138	0.166	0.124	0.124	0.091	70.9	52.9	52.9	38.9
DN610B LED24S/930UE PSE-E WR	2400.0	16.2	148.1	1.246	0.182	0.137	0.137	0.1	77.7	58.5	58.5	42.7
DN610B LED24S/930 PSE-E M	2400.0	21.5	111.6	1.654	0.241	0.181	0.181	0.133	102.9	77.3	77.3	56.8
DN610B LED24S/930 PSE-E BKR	2400.0	29.0	82.8	2.231	0.326	0.244	0.244	0.179	139.2	104.2	104.2	76.4
DN610B LED24S/940UE PSE-E C	2400.0	14.6	164.4	1.123	0.164	0.123	0.123	0.09	70.0	52.5	52.5	38.4
DN610B LED24S/940UE PSE-E WR	2500.0	16.2	154.3	1.246	0.174	0.131	0.131	0.096	74.3	55.9	55.9	41.0
DN610B LED24S/940 PSE-E M	2500.0	21.5	116.3	1.654	0.232	0.174	0.174	0.128	99.1	74.3	74.3	54.7
DN610B LED24S/940 PSE-E BKR	2500.0	29.0	86.2	2.231	0.312	0.234	0.234	0.172	133.2	99.9	99.9	73.4
DN610B LED40S/830UE PSE-E C	3900.0	25.0	156.0	1.923	0.173	0.13	0.13	0.095	73.9	55.5	55.5	40.6
DN610B LED40S/830UE PSE-E WR	4100.0	29.5	139.0	2.269	0.193	0.145	0.145	0.106	82.4	61.9	61.9	45.3
DN610B LED40S/830 PSE-E M	4000.0	38.0	105.3	2.923	0.254	0.191	0.191	0.14	108.5	81.6	81.6	59.8
DN610B LED40S/840UE PSE-E C	4200.0	25.0	168.0	1.923	0.16	0.12	0.12	0.088	68.3	51.2	51.2	37.6
DN610B LED40S/840UE PSE-E WR	4300.0	29.5	145.8	2.269	0.184	0.138	0.138	0.101	78.6	58.9	58.9	43.1
DN610B LED40S/840 PSE-E M	4200.0	36.5	115.1	2.808	0.233	0.175	0.175	0.128	99.5	74.7	74.7	54.7
DN610B LED40S/930UE PSE-E C	4300.0	29.0	148.3	2.231	0.181	0.136	0.136	0.1	77.3	58.1	58.1	42.7
DN610B LED40S/930UE PSE-E WR	3900.0	29.5	132.2	2.269	0.204	0.153	0.153	0.112	87.1	65.3	65.3	47.8
DN610B LED40S/940UE PSE-E C	3900.0	25.5	152.9	1.962	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED40S/940UE PSE-E WR	4100.0	29.5	139.0	2.269	0.193	0.145	0.145	0.106	82.4	61.9	61.9	45.3
DN610B LED20S/830UE PSE-E FLR	2100.0	12.6	166.7	0.969	0.162	0.121	0.121	0.089	69.2	51.7	51.7	38.0
DN610B LED20S/840UE PSE-E FLR	2200.0	12.6	174.6	0.969	0.154	0.115	0.115	0.085	65.8	49.1	49.1	36.3
DN610B LED20S/930UE PSE-E FLR	2000.0	12.8	156.2	0.985	0.172	0.129	0.129	0.095	73.4	55.1	55.1	40.6
DN610B LED20S/940UE PSE-E FLR	2100.0	12.8	164.1	0.985	0.164	0.123	0.123	0.09	70.0	52.5	52.5	38.4
DN610B LED24S/830UE PSE-E FLR	2400.0	14.4	166.7	1.108	0.162	0.121	0.121	0.089	69.2	51.7	51.7	38.0
DN610B LED24S/840UE PSE-E FLR	2500.0	14.4	173.6	1.108	0.155	0.116	0.116	0.085	66.2	49.5	49.5	36.3

DN610B LED24S/930UE PSE-E FLR	2400.0	14.8	162.2	1.138	0.166	0.124	0.124	0.091	70.9	52.9	52.9	38.9
DN610B LED24S/940UE PSE-E FLR	2400.0	14.6	164.4	1.123	0.164	0.123	0.123	0.09	70.0	52.5	52.5	38.4
DN610B LED40S/830UE PSE-E FLR	3900.0	25.0	156.0	1.923	0.173	0.13	0.13	0.095	73.9	55.5	55.5	40.6
DN610B LED40S/840UE PSE-E FLR	4200.0	25.0	168.0	1.923	0.16	0.12	0.12	0.088	68.3	51.2	51.2	37.6
DN610B LED40S/930UE PSE-E FLR	4300.0	29.0	148.3	2.231	0.181	0.136	0.136	0.1	77.3	58.1	58.1	42.7
DN610B LED40S/940UE PSE-E FLR	3900.0	25.5	152.9	1.962	0.177	0.133	0.133	0.097	75.6	56.8	56.8	41.4
DN610B LED24S/830 PSU-E M	2300.0	19.6	117.3	1.508	0.229	0.172	0.172	0.126	97.8	73.4	73.4	53.8
DN610B LED24S/840 PSU-E M	2500.0	19.6	127.6	1.508	0.211	0.158	0.158	0.116	90.1	67.5	67.5	49.5
DN610B LED24S/930 PSU-E M	2400.0	21.5	111.6	1.654	0.241	0.181	0.181	0.133	102.9	77.3	77.3	56.8
DN610B LED24S/940 PSU-E M	2500.0	21.5	116.3	1.654	0.232	0.174	0.174	0.128	99.1	74.3	74.3	54.7
DN610B LED24S/830 PSE-E M	2300.0	19.6	117.3	1.508	0.229	0.172	0.172	0.126	97.8	73.4	73.4	53.8
DN610B LED24S/840 PSE-E M	2500.0	19.6	127.6	1.508	0.211	0.158	0.158	0.116	90.1	67.5	67.5	49.5
DN610B LED24S/930 PSE-E M	2400.0	21.5	111.6	1.654	0.241	0.181	0.181	0.133	102.9	77.3	77.3	56.8
DN610B LED24S/940 PSE-E M	2500.0	21.5	116.3	1.654	0.232	0.174	0.174	0.128	99.1	74.3	74.3	54.7
DN610B LED24S/830 PSU-E BKR	2500.0	28.5	87.7	2.192	0.307	0.23	0.23	0.169	131.1	98.2	98.2	72.2

*** Note that if the product is non-dimmable, only the values for "NC (No Control)" are valid; if the driver type is PSU, only the values for "NC (No Control)" and "PS (presence sensing)" for are valid.*

ANNEX

USE PHASE (B6) VALUES FOR DIFFERENT COUNTRY MIX

The table in this annex is useful for conversion and comparison of B6 values with other energy country mix. The Global Warming Potential Total (GWP tot) value is illustrated for each country. The value refers to 1 kwh.

Example on how to use the table:

This EPD was done according to a specific customer use location that can be read in the paragraph **PRODUCT USE AND MAINTENANCE (B1-B7)**.

If for example the EPD was done according to EU energy mix and you want to see how the GWP total changes according to a Finland country energy mix, you can take the original value in the results table here highlighted in yellow:

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	5,88E+00	2,61E-01	-1,25E-01	6,02E+00	3,02E-01	5,41E-01	MND	MND	MND	MND	MND	4,06E+02	MND	MNR	1,77E-02	2,62E-01	1,88E-01	-1,09E+01

Divide that value according to the EU value from the following table (EU = 3.30E-01) and then multiplying for the Finland value from the same table (FINLAND = 1.50E-01).

Thus, the calculation of this example would be:

New B6 GWP tot for Finland = (4.06E-02 / 3.30E-01) x 1.5E-01 = 1.8E-02

Country	GWP tot (kg CO2 eq. per kwh)
AFRICA	7.30E-01
APAC	9.50E-01
AUSTRALIA	9.20E-01
AUSTRIA	2.30E-01
BELGIUM	2.00E-01
CHINA	1.0E+00
DENMARK	1.50E-01
EU	3.30E-01
FINLAND	1.50E-01
FRANCE	9.00E-02
GERMANY	9.90E-01
HUNGARY	3.70 -01
INDIA	1.50E+00
IRELAND	3.50E-01
ITALY	3.50E-01
LATAM	3.80E-01
NAM	4,50E-01
NETHERLANDS	3.90E-01

NORWAY	2.00E-02
POLAND	9.30E-01
PORTUGAL	2.70E-01
ROW	7.30E-01
SPAIN	2.00E-01
SWEDEN	3.00E-02
SWITZERLAND	3.00E-02
UK	2.60E-01

Source Ecoinvent 3.10.1