

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

Philips Luma gen2

BGP703

Signify N.V.



EPD HUB

Publishing date 2024-02-14

The Signify logo, consisting of a green circle with a white 'S' inside, followed by the word 'signify' in a lowercase, green, sans-serif font.

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Signify N.V.
Address	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	Electrical product
Category of EPD	Pre-verified 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 14025: <input checked="" type="checkbox"/> Internal certification <input type="checkbox"/> 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	Philips Luma Gen2 Mini
Additional labels	BGP703 LED120-4S/740 I DM11 GR PSU 62
Product reference	910925867229
Place of production	Poland
Period for data	2022
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3	%

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 unit of 10800 lumens over 100000 hours
Declared unit mass	10.0876 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	2.08E+02
GWP-total, A1-A3 (kgCO ₂ e)	2.07E+02
Secondary material, inputs (%)	7.93
Secondary material, outputs (%)	48.2
Total energy use, A1-A3 (kWh)	651.0
Total water use, A1-A3 (m ³ e)	1.19E+00

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

Luma gen2 is the next generation of the Luma LED luminaire family, fully optimized to become your long-term lighting and innovation partner. While keeping the distinctive design characteristics of the first generation, Luma gen2 gives you the benefits of the latest technologies thanks to its future-proof System Ready architecture, use of optimized Ledgine LED and optical platform ensuring best in class lighting performance in a broad range of applications. It also offers improved serviceability. Installation has also become easier and faster, and thanks to the Service tag, you have access to all relevant documentations onsite. Also, the cable feed-through has been redesigned and access to the gear components is easy thanks to top down tool-less access. Luma gen2 also offers all connectivity and dimming options available today and thanks to being System Ready, it can also to be paired with lighting management systems such as Interact City or existing and upcoming sensor innovations. The Luma gen2 has been developed to optimize and simplify spare part repair and maintenance work using a new plug & play GearFlex module containing all electrical components in an easy to handle and accessible box inside the housing. As a company conscious about the impact of light on the environment and biodiversity, we also equipped the Luma gen2 with dedicated light recipes that help with maintaining the optimal ecosystems for bats or preserve a dark night sky.

Footer_input

For more information, please visit

<https://www.lighting.philips.com/link/BGP701/fam/aa/en>

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass- %	Material origin
Metals	62.67	EU , APAC
Minerals	11.94	EU , APAC
Fossil materials	25.4	EU , APAC
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	0.319

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 Product
Mass per declared unit	10.0876 kg

Functional unit	1 unit of 10800 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.

Footer_input

Thus, it is possible to allocate it according to the weight of the product analysed in this study. Some of the wastes 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)

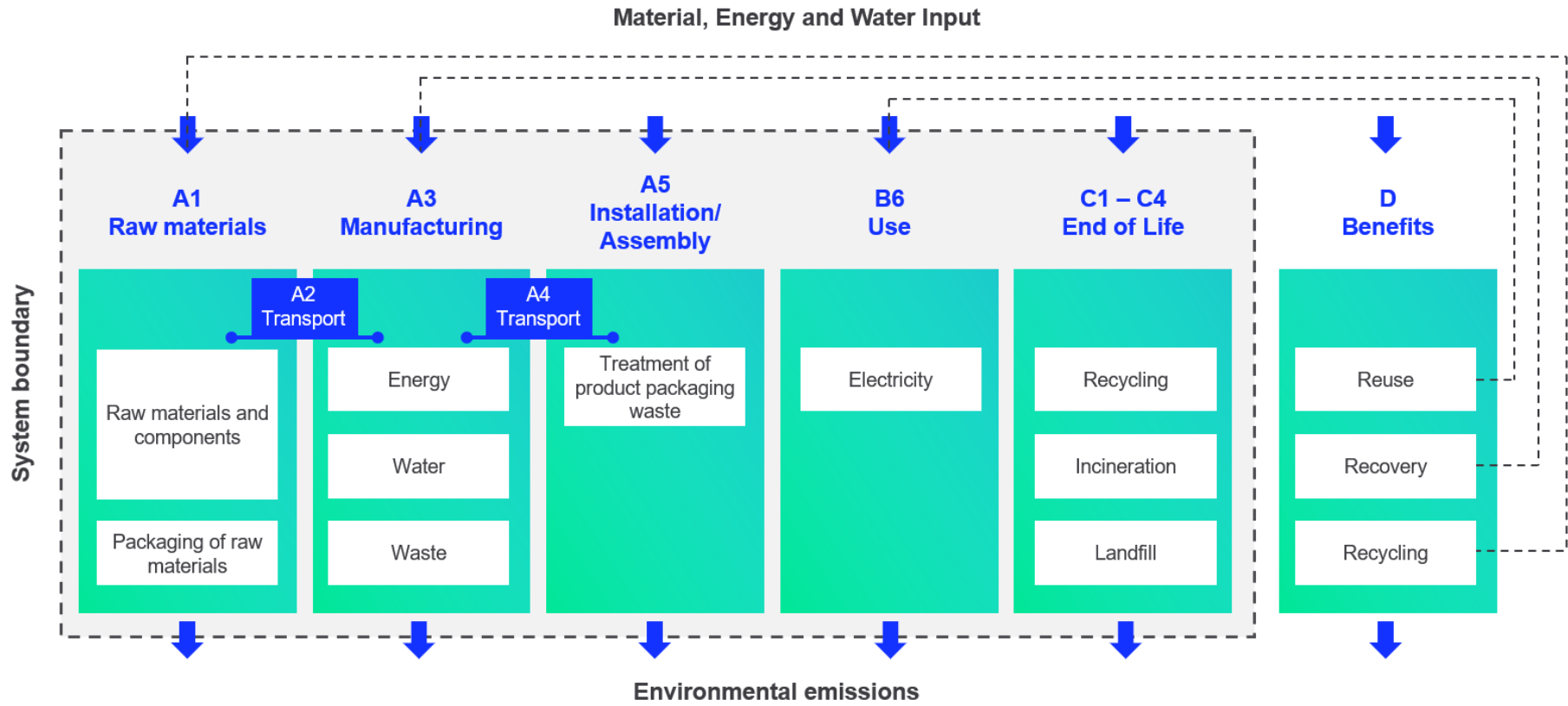
During the use phase, the product consumes electricity from Europe's electricity grid mix (B6). The total power consumption of the reference product is calculated as follows: Wattage x Reference lifetime = kWh consumed throughout the entire use phase B6.

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 3.8 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	2.04E+02	2.05E+00	1.55E-01	2.07E+02	2.05E+00	1.20E+00	MNR	MNR	MNR	MNR	MNR	2.93E+03	MNR	MNR	1.43E-01	2.59E+00	1.62E+00	-8.05E+01
GWP – fossil	kg CO ₂ e	2.05E+02	2.05E+00	1.30E+00	2.08E+02	2.04E+00	5.20E-02	MNR	MNR	MNR	MNR	MNR	2.92E+03	MNR	MNR	1.43E-01	2.59E+00	1.62E+00	-8.05E+01
GWP – biogenic	kg CO ₂ e	-7.05E-01	0.00E+00	-1.15E+00	-1.86E+00	7.90E-04	1.15E+00	MNR	MNR	MNR	MNR	MNR	0.00E+00	MNR	MNR	0.00E+00	0.00E+00	0.00E+00	-1.38E-02
GWP – LULUC	kg CO ₂ e	2.85E-01	1.16E-03	6.62E-03	2.93E-01	7.54E-04	1.06E-05	MNR	MNR	MNR	MNR	MNR	6.84E+00	MNR	MNR	5.26E-05	1.79E-04	1.29E-04	-7.85E-03
Ozone depletion pot.	kg CFC ₁₁ e	2.33E-05	4.35E-07	1.57E-07	2.39E-05	4.70E-07	3.06E-09	MNR	MNR	MNR	MNR	MNR	1.49E-04	MNR	MNR	3.28E-08	1.78E-08	1.57E-08	-2.18E-06
Acidification potential	mol H ⁺ e	1.57E+00	4.05E-02	5.55E-03	1.62E+00	8.65E-03	2.43E-04	MNR	MNR	MNR	MNR	MNR	1.67E+01	MNR	MNR	6.04E-04	1.87E-03	8.47E-04	-8.51E-01
EP-freshwater ²⁾	kg Pe	1.37E-02	1.16E-05	5.69E-05	1.37E-02	1.67E-05	3.21E-07	MNR	MNR	MNR	MNR	MNR	3.10E-01	MNR	MNR	1.17E-06	5.72E-06	6.16E-06	-5.19E-03
EP-marine	kg Ne	2.16E-01	1.02E-02	2.39E-03	2.29E-01	2.57E-03	1.04E-04	MNR	MNR	MNR	MNR	MNR	2.22E+00	MNR	MNR	1.79E-04	5.42E-04	1.35E-03	-9.09E-02
EP-terrestrial	mol Ne	2.42E+00	1.13E-01	1.56E-02	2.55E+00	2.84E-02	1.07E-03	MNR	MNR	MNR	MNR	MNR	2.52E+01	MNR	MNR	1.98E-03	5.91E-03	3.08E-03	-1.05E+00
POCP (“smog”) ³⁾	kg NMVOCe	7.15E-01	3.00E-02	4.63E-03	7.50E-01	9.08E-03	2.68E-04	MNR	MNR	MNR	MNR	MNR	6.90E+00	MNR	MNR	6.33E-04	1.54E-03	1.02E-03	-3.04E-01
ADP-minerals & metals ⁴⁾	kg Sbe	1.01E-02	3.72E-06	7.03E-06	1.01E-02	4.79E-06	1.00E-07	MNR	MNR	MNR	MNR	MNR	2.73E-02	MNR	MNR	3.34E-07	1.29E-05	3.45E-07	-1.73E-03
ADP-fossil resources	MJ	2.19E+03	2.80E+01	1.77E+01	2.23E+03	3.07E+01	2.40E-01	MNR	MNR	MNR	MNR	MNR	6.22E+04	MNR	MNR	2.14E+00	1.87E+00	1.49E+00	-7.88E+02
Water use ⁵⁾	m ³ e depr.	4.86E+01	1.04E-01	5.78E-01	4.92E+01	1.37E-01	5.63E-02	MNR	MNR	MNR	MNR	MNR	1.70E+03	MNR	MNR	9.58E-03	1.22E-01	1.06E-01	-5.72E+00

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	1.43E-05	1.41E-07	1.02E-07	1.46E-05	2.36E-07	2.24E-09	MNR	MNR	MNR	MNR	MNR	5.49E-05	MNR	MNR	1.64E-08	2.04E-08	1.17E-08	-4.49E-06
Ionizing radiation ⁶⁾	kBq U235e	9.97E+00	1.31E-01	4.94E-02	1.02E+01	1.46E-01	8.60E-04	MNR	MNR	MNR	MNR	MNR	1.68E+03	MNR	MNR	1.02E-02	1.03E-02	7.49E-03	-4.73E+00

Ecotoxicity (freshwater)	CTUe	8.38E+03	2.14E+01	4.62E+01	8.45E+03	2.76E+01	1.61E+00	MNR	MNR	MNR	MNR	MNR	4.23E+04	MNR	MNR	1.93E+00	1.15E+01	5.47E+02	-1.94E+03
Human toxicity, cancer	CTUh	2.61E-07	9.81E-10	9.30E-10	2.63E-07	6.78E-10	7.59E-11	MNR	MNR	MNR	MNR	MNR	1.39E-06	MNR	MNR	4.73E-11	4.08E-10	1.56E-09	-5.16E-09
Human tox. non-cancer	CTUh	7.79E-06	1.81E-08	1.56E-08	7.82E-06	2.73E-08	3.17E-09	MNR	MNR	MNR	MNR	MNR	4.56E-05	MNR	MNR	1.91E-09	1.65E-08	8.17E-08	-2.23E-06
SQP ⁷⁾	-	6.68E+02	1.79E+01	3.89E+01	7.25E+02	3.54E+01	1.32E-01	MNR	MNR	MNR	MNR	MNR	1.13E+04	MNR	MNR	2.47E+00	2.85E+00	2.12E+00	-1.66E+02

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	1.62E+02	2.53E-01	1.42E+01	1.76E+02	3.46E-01	7.76E-03	MNR	MNR	MNR	MNR	MNR	1.27E+04	MNR	MNR	2.41E-02	2.30E-01	6.20E-02	-1.36E+01
Renew. PER as material	MJ	6.50E+00	0.00E+00	1.02E+01	1.67E+01	0.00E+00	-1.02E+01	MNR	MNR	MNR	MNR	MNR	0.00E+00	MNR	MNR	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renew. PER	MJ	1.69E+02	2.53E-01	2.43E+01	1.93E+02	3.46E-01	-1.02E+01	MNR	MNR	MNR	MNR	MNR	1.27E+04	MNR	MNR	2.41E-02	2.30E-01	6.20E-02	-1.36E+01
Non-re. PER as energy	MJ	2.12E+03	2.80E+01	1.68E+01	2.17E+03	3.07E+01	2.40E-01	MNR	MNR	MNR	MNR	MNR	6.21E+04	MNR	MNR	2.14E+00	1.87E+00	1.49E+00	-7.88E+02
Non-re. PER as material	MJ	6.07E+01	0.00E+00	5.35E-01	6.12E+01	0.00E+00	-5.35E-01	MNR	MNR	MNR	MNR	MNR	0.00E+00	MNR	MNR	0.00E+00	-2.53E+01	-2.53E+01	0.00E+00
Total use of non-re. PER	MJ	2.18E+03	2.80E+01	1.74E+01	2.23E+03	3.07E+01	-2.95E-01	MNR	MNR	MNR	MNR	MNR	6.21E+04	MNR	MNR	2.14E+00	-2.35E+01	-2.38E+01	-7.88E+02
Secondary materials	kg	8.00E-01	1.03E-02	7.46E-01	1.56E+00	8.52E-03	2.85E-04	MNR	MNR	MNR	MNR	MNR	6.41E+00	MNR	MNR	5.95E-04	1.85E-03	3.25E-03	3.29E+00
Renew. secondary fuels	MJ	1.27E-01	5.61E-05	5.30E-02	1.80E-01	8.60E-05	4.55E-06	MNR	MNR	MNR	MNR	MNR	5.20E-02	MNR	MNR	6.00E-06	8.86E-05	2.92E-05	-2.16E-03
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	1.18E+00	2.69E-03	1.37E-02	1.19E+00	3.98E-03	9.39E-04	MNR	MNR	MNR	MNR	MNR	5.36E+01	MNR	MNR	2.77E-04	4.35E-03	2.45E-03	-2.62E-01

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	3.44E+01	3.76E-02	6.91E-02	3.45E+01	4.07E-02	1.92E-03	MNR	MNR	MNR	MNR	MNR	2.23E+02	MNR	MNR	2.84E-03	1.06E-02	4.69E-02	-1.27E+01
Non-hazardous waste	kg	3.91E+02	4.58E-01	1.19E+00	3.93E+02	6.69E-01	7.58E-01	MNR	MNR	MNR	MNR	MNR	1.41E+04	MNR	MNR	4.66E-02	1.38E+00	4.15E+00	-2.41E+02
Radioactive waste	kg	4.18E-03	1.93E-04	2.98E-05	4.40E-03	2.05E-04	4.11E-07	MNR	MNR	MNR	MNR	MNR	4.53E-01	MNR	MNR	1.43E-05	6.22E-06	0.00E+00	-1.74E-03

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	0.00E+00
Materials for recycling	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	4.86E+00	0.00E+00	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	3.46E-01	3.46E-01	0.00E+00	0.00E+00	MNR	MNR	MNR	MNR	MNR	0.00E+00	MNR	MNR	0.00E+00	2.28E+01	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	1.99E+02	2.03E+00	1.34E+00	2.02E+02	2.02E+00	5.06E-02	MNR	MNR	MNR	MNR	MNR	2.90E+03	MNR	MNR	1.41E-01	2.58E+00	2.06E+00	-7.89E+01
Ozone depletion Pot.	kg CFC ₁₁ e	1.77E-05	3.45E-07	1.33E-07	1.82E-05	3.72E-07	2.67E-09	MNR	MNR	MNR	MNR	MNR	1.29E-04	MNR	MNR	2.60E-08	1.49E-08	1.28E-08	-1.85E-06
Acidification	kg SO ₂ e	1.33E+00	3.23E-02	4.12E-03	1.37E+00	6.72E-03	1.77E-04	MNR	MNR	MNR	MNR	MNR	1.42E+01	MNR	MNR	4.69E-04	1.45E-03	6.43E-04	-7.34E-01
Eutrophication	kg PO ₄ ³ e	4.39E-01	3.95E-03	2.83E-03	4.46E-01	1.53E-03	1.33E-04	MNR	MNR	MNR	MNR	MNR	1.09E+01	MNR	MNR	1.07E-04	6.23E-04	6.05E-03	-2.06E-01



POCP ("smog")	kg C ₂ H ₄ e	7.43E-02	8.70E-04	3.42E-04	7.56E-02	2.62E-04	5.46E-06	MNR	MNR	MNR	MNR	MNR	5.80E-01	MNR	MNR	1.83E-05	4.87E-05	1.42E-04	-3.58E-02
ADP-elements	kg Sbe	1.00E-02	3.62E-06	6.27E-06	1.00E-02	4.64E-06	7.88E-08	MNR	MNR	MNR	MNR	MNR	2.72E-02	MNR	MNR	3.24E-07	1.28E-05	3.09E-07	-1.72E-03
ADP-fossil	MJ	2.18E+03	2.80E+01	1.76E+01	2.23E+03	3.07E+01	2.40E-01	MNR	MNR	MNR	MNR	MNR	6.21E+04	MNR	MNR	2.14E+00	1.87E+00	1.49E+00	-7.88E+02

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.

$$\text{Scaled Impact} = \text{GWP}_{\text{case}} * \text{TSF}$$

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
BGP703 LED8-4S/740	736.0	5.6	131.4	0.079	0.079	0.059	0.059	0.043	231.5	172.9	172.9	126.0
BGP703 LED8-4S/730	728.0	5.9	123.4	0.083	0.083	0.062	0.062	0.046	243.2	181.7	181.7	134.8
BGP703 LED8-4S/727	728.0	6.5	112.0	0.092	0.092	0.069	0.069	0.051	269.6	202.2	202.2	149.4
BGP703 LED8-4S/830	728.0	6.5	112.0	0.092	0.092	0.069	0.069	0.051	269.6	202.2	202.2	149.4
BGP703 LED8-4S/722	728.0	7.2	101.1	0.101	0.101	0.076	0.076	0.056	295.9	222.7	222.7	164.1
BGP703 LED10-4S/740	910.0	6.8	133.8	0.096	0.096	0.072	0.072	0.053	281.3	211.0	211.0	155.3
BGP703 LED10-4S/730	910.0	7.2	126.4	0.101	0.101	0.076	0.076	0.056	295.9	222.7	222.7	164.1
BGP703 LED10-4S/727	910.0	7.9	115.2	0.111	0.111	0.083	0.083	0.061	325.2	243.2	243.2	178.7
BGP703 LED10-4S/830	910.0	7.7	118.2	0.108	0.108	0.081	0.081	0.059	316.4	237.3	237.3	172.9
BGP703 LED10-4S/722	910.0	8.6	105.8	0.121	0.121	0.091	0.091	0.067	354.5	266.6	266.6	196.3
BGP703 LED12-4S/740	1092.0	7.8	140.0	0.11	0.11	0.083	0.083	0.061	322.3	243.2	243.2	178.7
BGP703 LED12-4S/730	1092.0	8.2	133.2	0.115	0.115	0.086	0.086	0.063	336.9	252.0	252.0	184.6



BGP703 LED12-4S/727	1092.0	9.1	120.0	0.128	0.128	0.096	0.096	0.07	375.0	281.3	281.3	205.1
BGP703 LED12-4S/830	1092.0	9.1	120.0	0.128	0.128	0.096	0.096	0.07	375.0	281.3	281.3	205.1
BGP703 LED12-4S/722	1092.0	10.2	107.1	0.144	0.144	0.108	0.108	0.079	421.9	316.4	316.4	231.5
BGP703 LED14-4S/740	1274.0	9.0	141.6	0.127	0.127	0.095	0.095	0.07	372.1	278.4	278.4	205.1
BGP703 LED14-4S/730	1274.0	9.5	134.1	0.134	0.134	0.101	0.101	0.074	392.6	295.9	295.9	216.8
BGP703 LED14-4S/727	1274.0	10.6	120.2	0.149	0.149	0.112	0.112	0.082	436.6	328.2	328.2	240.3
BGP703 LED14-4S/830	1274.0	10.6	120.2	0.149	0.149	0.112	0.112	0.082	436.6	328.2	328.2	240.3
BGP703 LED14-4S/722	1274.0	11.6	109.8	0.163	0.163	0.122	0.122	0.09	477.6	357.5	357.5	263.7
BGP703 LED16-4S/740	1456.0	10.2	142.7	0.144	0.144	0.108	0.108	0.079	421.9	316.4	316.4	231.5
BGP703 LED16-4S/730	1456.0	10.8	134.8	0.152	0.152	0.114	0.114	0.084	445.4	334.0	334.0	246.1
BGP703 LED16-4S/727	1456.0	11.8	123.4	0.166	0.166	0.124	0.124	0.091	486.4	363.3	363.3	266.6
BGP703 LED16-4S/830	1456.0	11.8	123.4	0.166	0.166	0.124	0.124	0.091	486.4	363.3	363.3	266.6
BGP703 LED16-4S/722	1456.0	13.4	108.7	0.189	0.189	0.142	0.142	0.104	553.8	416.1	416.1	304.7
BGP703 LED18-4S/740	1638.0	11.4	143.7	0.161	0.161	0.121	0.121	0.089	471.7	354.5	354.5	260.8
BGP703 LED18-4S/730	1638.0	12.0	136.5	0.169	0.169	0.127	0.127	0.093	495.2	372.1	372.1	272.5
BGP703 LED18-4S/727	1638.0	13.4	122.2	0.189	0.189	0.142	0.142	0.104	553.8	416.1	416.1	304.7
BGP703 LED18-4S/830	1638.0	13.4	122.2	0.189	0.189	0.142	0.142	0.104	553.8	416.1	416.1	304.7
BGP703 LED18-4S/722	1638.0	15.0	109.2	0.211	0.211	0.158	0.158	0.116	618.2	462.9	462.9	339.9
BGP703 LED20-4S/740	1820.0	12.6	144.4	0.177	0.177	0.133	0.133	0.097	518.6	389.7	389.7	284.2
BGP703 LED20-4S/730	1820.0	13.4	135.8	0.189	0.189	0.142	0.142	0.104	553.8	416.1	416.1	304.7
BGP703 LED20-4S/727	1820.0	15.0	121.3	0.211	0.211	0.158	0.158	0.116	618.2	462.9	462.9	339.9
BGP703 LED20-4S/830	1820.0	14.2	128.2	0.2	0.2	0.15	0.15	0.11	586.0	439.5	439.5	322.3
BGP703 LED20-4S/722	1820.0	15.8	115.2	0.223	0.223	0.167	0.167	0.123	653.4	489.3	489.3	360.4
BGP703 LED22-4S/740	2002.0	13.8	145.1	0.194	0.194	0.146	0.146	0.107	568.4	427.8	427.8	313.5



BGP703 LED22-4S/730	2002.0	14.0	143.0	0.197	0.197	0.148	0.148	0.108	577.2	433.6	433.6	316.4
BGP703 LED22-4S/727	2002.0	15.6	128.3	0.22	0.22	0.165	0.165	0.121	644.6	483.5	483.5	354.5
BGP703 LED22-4S/830	2002.0	15.6	128.3	0.22	0.22	0.165	0.165	0.121	644.6	483.5	483.5	354.5
BGP703 LED22-4S/722	2002.0	17.4	115.1	0.245	0.245	0.184	0.184	0.135	717.9	539.1	539.1	395.6
BGP703 LED24-4S/740	2184.0	14.4	151.7	0.203	0.203	0.152	0.152	0.112	594.8	445.4	445.4	328.2
BGP703 LED24-4S/730	2184.0	15.2	143.7	0.214	0.214	0.161	0.161	0.118	627.0	471.7	471.7	345.7
BGP703 LED24-4S/727	2184.0	17.0	128.5	0.239	0.239	0.179	0.179	0.131	700.3	524.5	524.5	383.8
BGP703 LED24-4S/830	2184.0	17.0	128.5	0.239	0.239	0.179	0.179	0.131	700.3	524.5	524.5	383.8
BGP703 LED24-4S/722	2184.0	19.0	114.9	0.268	0.268	0.201	0.201	0.147	785.2	588.9	588.9	430.7
BGP703 LED27-4S/740	2457.0	16.2	151.7	0.228	0.228	0.171	0.171	0.125	668.0	501.0	501.0	366.2
BGP703 LED27-4S/730	2457.0	17.0	144.5	0.239	0.239	0.179	0.179	0.131	700.3	524.5	524.5	383.8
BGP703 LED27-4S/727	2457.0	19.0	129.3	0.268	0.268	0.201	0.201	0.147	785.2	588.9	588.9	430.7
BGP703 LED27-4S/830	2457.0	19.0	129.3	0.268	0.268	0.201	0.201	0.147	785.2	588.9	588.9	430.7
BGP703 LED27-4S/722	2457.0	21.0	117.0	0.296	0.296	0.222	0.222	0.163	867.3	650.5	650.5	477.6
BGP703 LED30-4S/740	2730.0	17.8	153.4	0.251	0.251	0.188	0.188	0.138	735.4	550.8	550.8	404.3
BGP703 LED30-4S/730	2730.0	19.0	143.7	0.268	0.268	0.201	0.201	0.147	785.2	588.9	588.9	430.7
BGP703 LED30-4S/727	2730.0	21.0	130.0	0.296	0.296	0.222	0.222	0.163	867.3	650.5	650.5	477.6
BGP703 LED30-4S/830	2730.0	21.0	130.0	0.296	0.296	0.222	0.222	0.163	867.3	650.5	650.5	477.6
BGP703 LED30-4S/722	2730.0	23.5	116.2	0.331	0.331	0.248	0.248	0.182	969.8	726.6	726.6	533.3
BGP703 LED35-4S/740	3185.0	21.0	151.7	0.296	0.296	0.222	0.222	0.163	867.3	650.5	650.5	477.6
BGP703 LED35-4S/730	3185.0	22.0	144.8	0.31	0.31	0.232	0.232	0.171	908.3	679.8	679.8	501.0
BGP703 LED35-4S/727	3185.0	24.5	130.0	0.345	0.345	0.259	0.259	0.19	1010.8	758.9	758.9	556.7
BGP703 LED35-4S/830	3185.0	25.0	127.4	0.352	0.352	0.264	0.264	0.194	1031.4	773.5	773.5	568.4
BGP703 LED35-4S/722	3185.0	28.0	113.8	0.394	0.394	0.295	0.295	0.217	1154.4	864.3	864.3	635.8



BGP703 LED40-4S/740	3640.0	24.0	151.7	0.338	0.338	0.254	0.254	0.186	990.3	744.2	744.2	545.0
BGP703 LED40-4S/730	3640.0	25.5	142.7	0.359	0.359	0.269	0.269	0.197	1051.9	788.2	788.2	577.2
BGP703 LED40-4S/727	3640.0	28.5	127.7	0.401	0.401	0.301	0.301	0.221	1174.9	881.9	881.9	647.5
BGP703 LED40-4S/830	3640.0	28.5	127.7	0.401	0.401	0.301	0.301	0.221	1174.9	881.9	881.9	647.5
BGP703 LED40-4S/722	3640.0	32.0	113.8	0.451	0.451	0.338	0.338	0.248	1321.4	990.3	990.3	726.6
BGP703 LED45-4S/740	4095.0	27.0	151.7	0.38	0.38	0.285	0.285	0.209	1113.4	835.0	835.0	612.4
BGP703 LED45-4S/730	4095.0	28.5	143.7	0.401	0.401	0.301	0.301	0.221	1174.9	881.9	881.9	647.5
BGP703 LED45-4S/727	4095.0	32.5	126.0	0.458	0.458	0.344	0.344	0.252	1341.9	1007.9	1007.9	738.4
BGP703 LED45-4S/830	4095.0	32.5	126.0	0.458	0.458	0.344	0.344	0.252	1341.9	1007.9	1007.9	738.4
BGP703 LED45-4S/722	4095.0	36.5	112.2	0.514	0.514	0.386	0.386	0.283	1506.0	1131.0	1131.0	829.2
BGP703 LED50-4S/740	4550.0	30.0	151.7	0.423	0.423	0.317	0.317	0.233	1239.4	928.8	928.8	682.7
BGP703 LED50-4S/730	4550.0	32.0	142.2	0.451	0.451	0.338	0.338	0.248	1321.4	990.3	990.3	726.6
BGP703 LED50-4S/727	4550.0	36.5	124.7	0.514	0.514	0.386	0.386	0.283	1506.0	1131.0	1131.0	829.2
BGP703 LED50-4S/830	4550.0	36.5	124.7	0.514	0.514	0.386	0.386	0.283	1506.0	1131.0	1131.0	829.2
BGP703 LED50-4S/722	4550.0	38.5	118.2	0.542	0.542	0.407	0.407	0.298	1588.1	1192.5	1192.5	873.1
BGP703 LED55-4S/740	5096.0	33.5	152.1	0.472	0.472	0.354	0.354	0.26	1383.0	1037.2	1037.2	761.8
BGP703 LED55-4S/730	5096.0	36.0	141.6	0.507	0.507	0.38	0.38	0.279	1485.5	1113.4	1113.4	817.5
BGP703 LED55-4S/727	5096.0	40.5	125.8	0.57	0.57	0.427	0.427	0.314	1670.1	1251.1	1251.1	920.0
BGP703 LED55-4S/830	5096.0	38.0	134.1	0.535	0.535	0.401	0.401	0.294	1567.6	1174.9	1174.9	861.4
BGP703 LED55-4S/722	5096.0	43.0	118.5	0.606	0.606	0.455	0.455	0.333	1775.6	1333.2	1333.2	975.7
BGP703 LED60-4S/740	5460.0	37.0	147.6	0.521	0.521	0.391	0.391	0.287	1526.5	1145.6	1145.6	840.9
BGP703 LED60-4S/730	5460.0	39.5	138.2	0.556	0.556	0.417	0.417	0.306	1629.1	1221.8	1221.8	896.6
BGP703 LED60-4S/727	5460.0	41.5	131.6	0.585	0.585	0.439	0.439	0.322	1714.0	1286.3	1286.3	943.5
BGP703 LED60-4S/830	5460.0	41.5	131.6	0.585	0.585	0.439	0.439	0.322	1714.0	1286.3	1286.3	943.5



BGP703 LED60-4S/722	5400.0	47.0	114.9	0.662	0.662	0.497	0.497	0.364	1939.7	1456.2	1456.2	1066.5
BGP703 LED6-4S/830	552.0	5.1	108.2	0.072	0.072	0.054	0.054	0.04	211.0	158.2	158.2	117.2
BGP703 LED6-4S/722	546.0	5.6	97.5	0.079	0.079	0.059	0.059	0.043	231.5	172.9	172.9	126.0
BGP703 LED65-4S/740	6006.0	37.5	160.2	0.528	0.528	0.396	0.396	0.29	1547.0	1160.3	1160.3	849.7
BGP703 LED65-4S/730	6006.0	40.0	150.2	0.563	0.563	0.422	0.422	0.31	1649.6	1236.5	1236.5	908.3
BGP703 LED65-4S/727	6006.0	45.5	132.0	0.641	0.641	0.481	0.481	0.353	1878.1	1409.3	1409.3	1034.3
BGP703 LED65-4S/830	6006.0	45.5	132.0	0.641	0.641	0.481	0.481	0.353	1878.1	1409.3	1409.3	1034.3
BGP703 LED65-4S/722	5940.0	51.0	116.5	0.718	0.718	0.538	0.538	0.395	2103.7	1576.3	1576.3	1157.4
BGP703 LED70-4S/740	6370.0	41.0	155.4	0.577	0.577	0.433	0.433	0.317	1690.6	1268.7	1268.7	928.8
BGP703 LED70-4S/730	6370.0	43.5	146.4	0.613	0.613	0.46	0.46	0.337	1796.1	1347.8	1347.8	987.4
BGP703 LED70-4S/727	6300.0	49.5	127.3	0.697	0.697	0.523	0.523	0.383	2042.2	1532.4	1532.4	1122.2
BGP703 LED70-4S/830	6300.0	49.5	127.3	0.697	0.697	0.523	0.523	0.383	2042.2	1532.4	1532.4	1122.2
BGP703 LED70-4S/722	6300.0	56.0	112.5	0.789	0.789	0.592	0.592	0.434	2311.8	1734.6	1734.6	1271.6
BGP703 LED75-4S/740	6916.0	44.0	157.2	0.62	0.62	0.465	0.465	0.341	1816.6	1362.5	1362.5	999.1
BGP703 LED75-4S/730	6916.0	47.0	147.1	0.662	0.662	0.497	0.497	0.364	1939.7	1456.2	1456.2	1066.5
BGP703 LED75-4S/727	6840.0	53.0	129.1	0.746	0.746	0.559	0.559	0.41	2185.8	1637.9	1637.9	1201.3
BGP703 LED75-4S/830	6840.0	53.0	129.1	0.746	0.746	0.559	0.559	0.41	2185.8	1637.9	1637.9	1201.3
BGP703 LED75-4S/722	6840.0	61.0	112.1	0.859	0.859	0.644	0.644	0.472	2516.9	1886.9	1886.9	1383.0
BGP703 LED80-4S/740	7280.0	47.5	153.3	0.669	0.669	0.502	0.502	0.368	1960.2	1470.9	1470.9	1078.2
BGP703 LED80-4S/730	7200.0	51.0	141.2	0.718	0.718	0.538	0.538	0.395	2103.7	1576.3	1576.3	1157.4
BGP703 LED80-4S/727	7200.0	58.0	124.1	0.817	0.817	0.613	0.613	0.449	2393.8	1796.1	1796.1	1315.6
BGP703 LED80-4S/830	7200.0	58.0	124.1	0.817	0.817	0.613	0.613	0.449	2393.8	1796.1	1796.1	1315.6
BGP703 LED80-4S/722	7200.0	62.0	116.1	0.873	0.873	0.655	0.655	0.48	2557.9	1919.2	1919.2	1406.4
BGP703 LED85-4S/740	7826.0	48.5	161.4	0.683	0.683	0.512	0.512	0.376	2001.2	1500.2	1500.2	1101.7



BGP703 LED85-4S/730	7740.0	52.0	148.8	0.732	0.732	0.549	0.549	0.403	2144.8	1608.6	1608.6	1180.8
BGP703 LED85-4S/727	7740.0	59.0	131.2	0.831	0.831	0.623	0.623	0.457	2434.8	1825.4	1825.4	1339.0
BGP703 LED85-4S/830	7740.0	59.0	131.2	0.831	0.831	0.623	0.623	0.457	2434.8	1825.4	1825.4	1339.0
BGP703 LED85-4S/722	7740.0	66.0	117.3	0.93	0.93	0.698	0.698	0.512	2724.9	2045.1	2045.1	1500.2
BGP703 LED90-4S/740	8100.0	52.0	155.8	0.732	0.732	0.549	0.549	0.403	2144.8	1608.6	1608.6	1180.8
BGP703 LED90-4S/730	8100.0	55.0	147.3	0.775	0.775	0.581	0.581	0.426	2270.8	1702.3	1702.3	1248.2
BGP703 LED90-4S/727	8100.0	62.0	130.6	0.873	0.873	0.655	0.655	0.48	2557.9	1919.2	1919.2	1406.4
BGP703 LED90-4S/830	8100.0	62.0	130.6	0.873	0.873	0.655	0.655	0.48	2557.9	1919.2	1919.2	1406.4
BGP703 LED90-4S/722	8100.0	71.0	114.1	1.0	1.0	0.75	0.75	0.55	2930.0	2197.5	2197.5	1611.5
BGP703 LED95-4S/740	8640.0	55.0	157.1	0.775	0.775	0.581	0.581	0.426	2270.8	1702.3	1702.3	1248.2
BGP703 LED95-4S/730	8640.0	58.0	149.0	0.817	0.817	0.613	0.613	0.449	2393.8	1796.1	1796.1	1315.6
BGP703 LED95-4S/727	8640.0	66.0	130.9	0.93	0.93	0.698	0.698	0.512	2724.9	2045.1	2045.1	1500.2
BGP703 LED95-4S/830	8640.0	66.0	130.9	0.93	0.93	0.698	0.698	0.512	2724.9	2045.1	2045.1	1500.2
BGP703 LED95-4S/722	8640.0	75.0	115.2	1.056	1.056	0.792	0.792	0.581	3094.1	2320.6	2320.6	1702.3
BGP703 LED100-4S/740	9000.0	58.0	155.2	0.817	0.817	0.613	0.613	0.449	2393.8	1796.1	1796.1	1315.6
BGP703 LED100-4S/730	9000.0	62.0	145.2	0.873	0.873	0.655	0.655	0.48	2557.9	1919.2	1919.2	1406.4
BGP703 LED100-4S/727	9000.0	70.0	128.6	0.986	0.986	0.74	0.74	0.542	2889.0	2168.2	2168.2	1588.1
BGP703 LED100-4S/830	9000.0	70.0	128.6	0.986	0.986	0.74	0.74	0.542	2889.0	2168.2	2168.2	1588.1
BGP703 LED100-4S/722	8900.0	80.0	111.2	1.127	1.127	0.845	0.845	0.62	3302.1	2475.8	2475.8	1816.6
BGP703 LED110-4S/740	9900.0	64.0	154.7	0.901	0.901	0.676	0.676	0.496	2639.9	1980.7	1980.7	1453.3
BGP703 LED110-4S/730	9900.0	69.0	143.5	0.972	0.972	0.729	0.729	0.535	2848.0	2136.0	2136.0	1567.6
BGP703 LED110-4S/727	9900.0	79.0	125.3	1.113	1.113	0.835	0.835	0.612	3261.1	2446.5	2446.5	1793.2
BGP703 LED110-4S/830	9900.0	79.0	125.3	1.113	1.113	0.835	0.835	0.612	3261.1	2446.5	2446.5	1793.2
BGP703 LED110-4S/722	9790.0	90.0	108.8	1.268	1.268	0.951	0.951	0.697	3715.2	2786.4	2786.4	2042.2



BGP703 LED120-4S/740 DM11 GR PSU 62	10800.0	71.0	152.1	1.0	1.0	0.75	0.75	0.55	2930.0	2197.5	2197.5	1611.5
BGP703 LED120-4S/730	10800.0	76.0	142.1	1.07	1.07	0.802	0.802	0.589	3135.1	2349.9	2349.9	1725.8
BGP703 LED120-4S/727	10680.0	87.0	122.8	1.225	1.225	0.919	0.919	0.674	3589.3	2692.7	2692.7	1974.8
BGP703 LED120-4S/830	10680.0	87.0	122.8	1.225	1.225	0.919	0.919	0.674	3589.3	2692.7	2692.7	1974.8
BGP703 LED120-4S/722	10680.0	99.0	107.9	1.394	1.394	1.045	1.045	0.767	4084.4	3061.8	3061.8	2247.3
BGP703 LED130-4S/740	11700.0	78.0	150.0	1.099	1.099	0.824	0.824	0.604	3220.1	2414.3	2414.3	1769.7
BGP703 LED130-4S/730	11570.0	84.0	137.7	1.183	1.183	0.887	0.887	0.651	3466.2	2598.9	2598.9	1907.4
BGP703 LED130-4S/727	11570.0	96.0	120.5	1.352	1.352	1.014	1.014	0.744	3961.4	2971.0	2971.0	2179.9
BGP703 LED130-4S/830	11570.0	96.0	120.5	1.352	1.352	1.014	1.014	0.744	3961.4	2971.0	2971.0	2179.9
BGP703 LED130-4S/722	11440.0	116.0	98.6	1.634	1.634	1.225	1.225	0.899	4787.6	3589.3	3589.3	2634.1
BGP703 LED140-4S/740	12460.0	85.0	146.6	1.197	1.197	0.898	0.898	0.658	3507.2	2631.1	2631.1	1927.9
BGP703 LED140-4S/730	12460.0	92.0	135.4	1.296	1.296	0.972	0.972	0.713	3797.3	2848.0	2848.0	2089.1
BGP703 LED140-4S/727	12460.0	104.0	119.8	1.465	1.465	1.099	1.099	0.806	4292.4	3220.1	3220.1	2361.6
BGP703 LED140-4S/830	12460.0	104.0	119.8	1.465	1.465	1.099	1.099	0.806	4292.4	3220.1	3220.1	2361.6
BGP703 LED150-4S/740	13350.0	93.0	143.5	1.31	1.31	0.983	0.983	0.721	3838.3	2880.2	2880.2	2112.5
BGP703 LED150-4S/730	13350.0	99.0	134.8	1.394	1.394	1.045	1.045	0.767	4084.4	3061.8	3061.8	2247.3
BGP703 LED150-4S/727	13200.0	114.0	115.8	1.606	1.606	1.205	1.205	0.883	4705.6	3530.7	3530.7	2587.2
BGP703 LED150-4S/830	13200.0	114.0	115.8	1.606	1.606	1.205	1.205	0.883	4705.6	3530.7	3530.7	2587.2
BGP703 LED160-4S/740	14240.0	100.0	142.4	1.408	1.408	1.056	1.056	0.774	4125.4	3094.1	3094.1	2267.8
BGP703 LED160-4S/730	14080.0	108.0	130.4	1.521	1.521	1.141	1.141	0.837	4456.5	3343.1	3343.1	2452.4
BGP703 LED169-4S/740	15130.0	106.0	142.7	1.493	1.493	1.12	1.12	0.821	4374.5	3281.6	3281.6	2405.5
BGP703 LED169-4S/730	14960.0	118.0	126.8	1.662	1.662	1.246	1.246	0.914	4869.7	3650.8	3650.8	2678.0

* 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
BGP703 LED8-4S/740	736.0	5.6	131.4	0.079	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED8-4S/730	728.0	5.9	123.4	0.083	0.04	0.03	0.03	0.022	117.2	87.9	87.9	64.5
BGP703 LED8-4S/727	728.0	6.5	112.0	0.092	0.044	0.033	0.033	0.024	128.9	96.7	96.7	70.3
BGP703 LED8-4S/830	728.0	6.5	112.0	0.092	0.044	0.033	0.033	0.024	128.9	96.7	96.7	70.3
BGP703 LED8-4S/722	728.0	7.2	101.1	0.101	0.049	0.037	0.037	0.027	143.6	108.4	108.4	79.1
BGP703 LED10-4S/740	910.0	6.8	133.8	0.096	0.037	0.028	0.028	0.02	108.4	82.0	82.0	58.6
BGP703 LED10-4S/730	910.0	7.2	126.4	0.101	0.039	0.029	0.029	0.021	114.3	85.0	85.0	61.5
BGP703 LED10-4S/727	910.0	7.9	115.2	0.111	0.043	0.032	0.032	0.024	126.0	93.8	93.8	70.3
BGP703 LED10-4S/830	910.0	7.7	118.2	0.108	0.042	0.032	0.032	0.023	123.1	93.8	93.8	67.4
BGP703 LED10-4S/722	910.0	8.6	105.8	0.121	0.047	0.035	0.035	0.026	137.7	102.6	102.6	76.2
BGP703 LED12-4S/740	1092.0	7.8	140.0	0.11	0.035	0.026	0.026	0.019	102.6	76.2	76.2	55.7
BGP703 LED12-4S/730	1092.0	8.2	133.2	0.115	0.037	0.028	0.028	0.02	108.4	82.0	82.0	58.6
BGP703 LED12-4S/727	1092.0	9.1	120.0	0.128	0.041	0.031	0.031	0.023	120.1	90.8	90.8	67.4
BGP703 LED12-4S/830	1092.0	9.1	120.0	0.128	0.041	0.031	0.031	0.023	120.1	90.8	90.8	67.4
BGP703 LED12-4S/722	1092.0	10.2	107.1	0.144	0.046	0.035	0.035	0.025	134.8	102.6	102.6	73.2
BGP703 LED14-4S/740	1274.0	9.0	141.6	0.127	0.035	0.026	0.026	0.019	102.6	76.2	76.2	55.7
BGP703 LED14-4S/730	1274.0	9.5	134.1	0.134	0.037	0.028	0.028	0.02	108.4	82.0	82.0	58.6
BGP703 LED14-4S/727	1274.0	10.6	120.2	0.149	0.041	0.031	0.031	0.023	120.1	90.8	90.8	67.4

BGP703 LED14-4S/830	1274.0	10.6	120.2	0.149	0.041	0.031	0.031	0.023	120.1	90.8	90.8	67.4
BGP703 LED14-4S/722	1274.0	11.6	109.8	0.163	0.045	0.034	0.034	0.025	131.8	99.6	99.6	73.2
BGP703 LED16-4S/740	1456.0	10.2	142.7	0.144	0.035	0.026	0.026	0.019	102.6	76.2	76.2	55.7
BGP703 LED16-4S/730	1456.0	10.8	134.8	0.152	0.036	0.027	0.027	0.02	105.5	79.1	79.1	58.6
BGP703 LED16-4S/727	1456.0	11.8	123.4	0.166	0.04	0.03	0.03	0.022	117.2	87.9	87.9	64.5
BGP703 LED16-4S/830	1456.0	11.8	123.4	0.166	0.04	0.03	0.03	0.022	117.2	87.9	87.9	64.5
BGP703 LED16-4S/722	1456.0	13.4	108.7	0.189	0.045	0.034	0.034	0.025	131.8	99.6	99.6	73.2
BGP703 LED18-4S/740	1638.0	11.4	143.7	0.161	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED18-4S/730	1638.0	12.0	136.5	0.169	0.036	0.027	0.027	0.02	105.5	79.1	79.1	58.6
BGP703 LED18-4S/727	1638.0	13.4	122.2	0.189	0.04	0.03	0.03	0.022	117.2	87.9	87.9	64.5
BGP703 LED18-4S/830	1638.0	13.4	122.2	0.189	0.04	0.03	0.03	0.022	117.2	87.9	87.9	64.5
BGP703 LED18-4S/722	1638.0	15.0	109.2	0.211	0.045	0.034	0.034	0.025	131.8	99.6	99.6	73.2
BGP703 LED20-4S/740	1820.0	12.6	144.4	0.177	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED20-4S/730	1820.0	13.4	135.8	0.189	0.036	0.027	0.027	0.02	105.5	79.1	79.1	58.6
BGP703 LED20-4S/727	1820.0	15.0	121.3	0.211	0.041	0.031	0.031	0.023	120.1	90.8	90.8	67.4
BGP703 LED20-4S/830	1820.0	14.2	128.2	0.2	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED20-4S/722	1820.0	15.8	115.2	0.223	0.043	0.032	0.032	0.024	126.0	93.8	93.8	70.3
BGP703 LED22-4S/740	2002.0	13.8	145.1	0.194	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED22-4S/730	2002.0	14.0	143.0	0.197	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED22-4S/727	2002.0	15.6	128.3	0.22	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED22-4S/830	2002.0	15.6	128.3	0.22	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED22-4S/722	2002.0	17.4	115.1	0.245	0.043	0.032	0.032	0.024	126.0	93.8	93.8	70.3
BGP703 LED24-4S/740	2184.0	14.4	151.7	0.203	0.032	0.024	0.024	0.018	93.8	70.3	70.3	52.7
BGP703 LED24-4S/730	2184.0	15.2	143.7	0.214	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7

BGP703 LED24-4S/727	2184.0	17.0	128.5	0.239	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED24-4S/830	2184.0	17.0	128.5	0.239	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED24-4S/722	2184.0	19.0	114.9	0.268	0.043	0.032	0.032	0.024	126.0	93.8	93.8	70.3
BGP703 LED27-4S/740	2457.0	16.2	151.7	0.228	0.032	0.024	0.024	0.018	93.8	70.3	70.3	52.7
BGP703 LED27-4S/730	2457.0	17.0	144.5	0.239	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED27-4S/727	2457.0	19.0	129.3	0.268	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED27-4S/830	2457.0	19.0	129.3	0.268	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED27-4S/722	2457.0	21.0	117.0	0.296	0.042	0.032	0.032	0.023	123.1	93.8	93.8	67.4
BGP703 LED30-4S/740	2730.0	17.8	153.4	0.251	0.032	0.024	0.024	0.018	93.8	70.3	70.3	52.7
BGP703 LED30-4S/730	2730.0	19.0	143.7	0.268	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED30-4S/727	2730.0	21.0	130.0	0.296	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED30-4S/830	2730.0	21.0	130.0	0.296	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED30-4S/722	2730.0	23.5	116.2	0.331	0.042	0.032	0.032	0.023	123.1	93.8	93.8	67.4
BGP703 LED35-4S/740	3185.0	21.0	151.7	0.296	0.033	0.025	0.025	0.018	96.7	73.2	73.2	52.7
BGP703 LED35-4S/730	3185.0	22.0	144.8	0.31	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED35-4S/727	3185.0	24.5	130.0	0.345	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED35-4S/830	3185.0	25.0	127.4	0.352	0.039	0.029	0.029	0.021	114.3	85.0	85.0	61.5
BGP703 LED35-4S/722	3185.0	28.0	113.8	0.394	0.043	0.032	0.032	0.024	126.0	93.8	93.8	70.3
BGP703 LED40-4S/740	3640.0	24.0	151.7	0.338	0.032	0.024	0.024	0.018	93.8	70.3	70.3	52.7
BGP703 LED40-4S/730	3640.0	25.5	142.7	0.359	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED40-4S/727	3640.0	28.5	127.7	0.401	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED40-4S/830	3640.0	28.5	127.7	0.401	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED40-4S/722	3640.0	32.0	113.8	0.451	0.043	0.032	0.032	0.024	126.0	93.8	93.8	70.3
BGP703 LED45-4S/740	4095.0	27.0	151.7	0.38	0.032	0.024	0.024	0.018	93.8	70.3	70.3	52.7



BGP703 LED45-4S/730	4095.0	28.5	143.7	0.401	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED45-4S/727	4095.0	32.5	126.0	0.458	0.039	0.029	0.029	0.021	114.3	85.0	85.0	61.5
BGP703 LED45-4S/830	4095.0	32.5	126.0	0.458	0.039	0.029	0.029	0.021	114.3	85.0	85.0	61.5
BGP703 LED45-4S/722	4095.0	36.5	112.2	0.514	0.044	0.033	0.033	0.024	128.9	96.7	96.7	70.3
BGP703 LED50-4S/740	4550.0	30.0	151.7	0.423	0.033	0.025	0.025	0.018	96.7	73.2	73.2	52.7
BGP703 LED50-4S/730	4550.0	32.0	142.2	0.451	0.035	0.026	0.026	0.019	102.6	76.2	76.2	55.7
BGP703 LED50-4S/727	4550.0	36.5	124.7	0.514	0.04	0.03	0.03	0.022	117.2	87.9	87.9	64.5
BGP703 LED50-4S/830	4550.0	36.5	124.7	0.514	0.04	0.03	0.03	0.022	117.2	87.9	87.9	64.5
BGP703 LED50-4S/722	4550.0	38.5	118.2	0.542	0.042	0.032	0.032	0.023	123.1	93.8	93.8	67.4
BGP703 LED55-4S/740	5096.0	33.5	152.1	0.472	0.033	0.025	0.025	0.018	96.7	73.2	73.2	52.7
BGP703 LED55-4S/730	5096.0	36.0	141.6	0.507	0.035	0.026	0.026	0.019	102.6	76.2	76.2	55.7
BGP703 LED55-4S/727	5096.0	40.5	125.8	0.57	0.039	0.029	0.029	0.021	114.3	85.0	85.0	61.5
BGP703 LED55-4S/830	5096.0	38.0	134.1	0.535	0.037	0.028	0.028	0.02	108.4	82.0	82.0	58.6
BGP703 LED55-4S/722	5096.0	43.0	118.5	0.606	0.042	0.032	0.032	0.023	123.1	93.8	93.8	67.4
BGP703 LED60-4S/740	5460.0	37.0	147.6	0.521	0.033	0.025	0.025	0.018	96.7	73.2	73.2	52.7
BGP703 LED60-4S/730	5460.0	39.5	138.2	0.556	0.036	0.027	0.027	0.02	105.5	79.1	79.1	58.6
BGP703 LED60-4S/727	5460.0	41.5	131.6	0.585	0.037	0.028	0.028	0.02	108.4	82.0	82.0	58.6
BGP703 LED60-4S/830	5460.0	41.5	131.6	0.585	0.037	0.028	0.028	0.02	108.4	82.0	82.0	58.6
BGP703 LED60-4S/722	5400.0	47.0	114.9	0.662	0.043	0.032	0.032	0.024	126.0	93.8	93.8	70.3
BGP703 LED6-4S/830	552.0	5.1	108.2	0.072	0.046	0.035	0.035	0.025	134.8	102.6	102.6	73.2
BGP703 LED6-4S/722	546.0	5.6	97.5	0.079	0.051	0.038	0.038	0.028	149.4	111.3	111.3	82.0
BGP703 LED65-4S/740	6006.0	37.5	160.2	0.528	0.031	0.023	0.023	0.017	90.8	67.4	67.4	49.8
BGP703 LED65-4S/730	6006.0	40.0	150.2	0.563	0.033	0.025	0.025	0.018	96.7	73.2	73.2	52.7
BGP703 LED65-4S/727	6006.0	45.5	132.0	0.641	0.037	0.028	0.028	0.02	108.4	82.0	82.0	58.6



BGP703 LED65-4S/830	6006.0	45.5	132.0	0.641	0.037	0.028	0.028	0.02	108.4	82.0	82.0	58.6
BGP703 LED65-4S/722	5940.0	51.0	116.5	0.718	0.042	0.032	0.032	0.023	123.1	93.8	93.8	67.4
BGP703 LED70-4S/740	6370.0	41.0	155.4	0.577	0.032	0.024	0.024	0.018	93.8	70.3	70.3	52.7
BGP703 LED70-4S/730	6370.0	43.5	146.4	0.613	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED70-4S/727	6300.0	49.5	127.3	0.697	0.039	0.029	0.029	0.021	114.3	85.0	85.0	61.5
BGP703 LED70-4S/830	6300.0	49.5	127.3	0.697	0.039	0.029	0.029	0.021	114.3	85.0	85.0	61.5
BGP703 LED70-4S/722	6300.0	56.0	112.5	0.789	0.044	0.033	0.033	0.024	128.9	96.7	96.7	70.3
BGP703 LED75-4S/740	6916.0	44.0	157.2	0.62	0.032	0.024	0.024	0.018	93.8	70.3	70.3	52.7
BGP703 LED75-4S/730	6916.0	47.0	147.1	0.662	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED75-4S/727	6840.0	53.0	129.1	0.746	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED75-4S/830	6840.0	53.0	129.1	0.746	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED75-4S/722	6840.0	61.0	112.1	0.859	0.044	0.033	0.033	0.024	128.9	96.7	96.7	70.3
BGP703 LED80-4S/740	7280.0	47.5	153.3	0.669	0.032	0.024	0.024	0.018	93.8	70.3	70.3	52.7
BGP703 LED80-4S/730	7200.0	51.0	141.2	0.718	0.035	0.026	0.026	0.019	102.6	76.2	76.2	55.7
BGP703 LED80-4S/727	7200.0	58.0	124.1	0.817	0.04	0.03	0.03	0.022	117.2	87.9	87.9	64.5
BGP703 LED80-4S/830	7200.0	58.0	124.1	0.817	0.04	0.03	0.03	0.022	117.2	87.9	87.9	64.5
BGP703 LED80-4S/722	7200.0	62.0	116.1	0.873	0.043	0.032	0.032	0.024	126.0	93.8	93.8	70.3
BGP703 LED85-4S/740	7826.0	48.5	161.4	0.683	0.031	0.023	0.023	0.017	90.8	67.4	67.4	49.8
BGP703 LED85-4S/730	7740.0	52.0	148.8	0.732	0.033	0.025	0.025	0.018	96.7	73.2	73.2	52.7
BGP703 LED85-4S/727	7740.0	59.0	131.2	0.831	0.037	0.028	0.028	0.02	108.4	82.0	82.0	58.6
BGP703 LED85-4S/830	7740.0	59.0	131.2	0.831	0.037	0.028	0.028	0.02	108.4	82.0	82.0	58.6
BGP703 LED85-4S/722	7740.0	66.0	117.3	0.93	0.042	0.032	0.032	0.023	123.1	93.8	93.8	67.4
BGP703 LED90-4S/740	8100.0	52.0	155.8	0.732	0.031	0.023	0.023	0.017	90.8	67.4	67.4	49.8
BGP703 LED90-4S/730	8100.0	55.0	147.3	0.775	0.033	0.025	0.025	0.018	96.7	73.2	73.2	52.7



BGP703 LED90-4S/727	8100.0	62.0	130.6	0.873	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED90-4S/830	8100.0	62.0	130.6	0.873	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED90-4S/722	8100.0	71.0	114.1	1.0	0.043	0.032	0.032	0.024	126.0	93.8	93.8	70.3
BGP703 LED95-4S/740	8640.0	55.0	157.1	0.775	0.032	0.024	0.024	0.018	93.8	70.3	70.3	52.7
BGP703 LED95-4S/730	8640.0	58.0	149.0	0.817	0.033	0.025	0.025	0.018	96.7	73.2	73.2	52.7
BGP703 LED95-4S/727	8640.0	66.0	130.9	0.93	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED95-4S/830	8640.0	66.0	130.9	0.93	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED95-4S/722	8640.0	75.0	115.2	1.056	0.043	0.032	0.032	0.024	126.0	93.8	93.8	70.3
BGP703 LED100-4S/740	9000.0	58.0	155.2	0.817	0.032	0.024	0.024	0.018	93.8	70.3	70.3	52.7
BGP703 LED100-4S/730	9000.0	62.0	145.2	0.873	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED100-4S/727	9000.0	70.0	128.6	0.986	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED100-4S/830	9000.0	70.0	128.6	0.986	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED100-4S/722	8900.0	80.0	111.2	1.127	0.044	0.033	0.033	0.024	128.9	96.7	96.7	70.3
BGP703 LED110-4S/740	9900.0	64.0	154.7	0.901	0.032	0.024	0.024	0.018	93.8	70.3	70.3	52.7
BGP703 LED110-4S/730	9900.0	69.0	143.5	0.972	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED110-4S/727	9900.0	79.0	125.3	1.113	0.039	0.029	0.029	0.021	114.3	85.0	85.0	61.5
BGP703 LED110-4S/830	9900.0	79.0	125.3	1.113	0.039	0.029	0.029	0.021	114.3	85.0	85.0	61.5
BGP703 LED110-4S/722	9790.0	90.0	108.8	1.268	0.046	0.035	0.035	0.025	134.8	102.6	102.6	73.2
BGP703 LED120-4S/740 DM11 GR PSU 62	10800.0	71.0	152.1	1.0	0.032	0.024	0.024	0.018	93.8	70.3	70.3	52.7
BGP703 LED120-4S/730	10800.0	76.0	142.1	1.07	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED120-4S/727	10680.0	87.0	122.8	1.225	0.04	0.03	0.03	0.022	117.2	87.9	87.9	64.5
BGP703 LED120-4S/830	10680.0	87.0	122.8	1.225	0.04	0.03	0.03	0.022	117.2	87.9	87.9	64.5
BGP703 LED120-4S/722	10680.0	99.0	107.9	1.394	0.046	0.035	0.035	0.025	134.8	102.6	102.6	73.2
BGP703 LED130-4S/740	11700.0	78.0	150.0	1.099	0.033	0.025	0.025	0.018	96.7	73.2	73.2	52.7

BGP703 LED130-4S/730	11570.0	84.0	137.7	1.183	0.035	0.026	0.026	0.019	102.6	76.2	76.2	55.7
BGP703 LED130-4S/727	11570.0	96.0	120.5	1.352	0.041	0.031	0.031	0.023	120.1	90.8	90.8	67.4
BGP703 LED130-4S/830	11570.0	96.0	120.5	1.352	0.041	0.031	0.031	0.023	120.1	90.8	90.8	67.4
BGP703 LED130-4S/722	11440.0	116.0	98.6	1.634	0.051	0.038	0.038	0.028	149.4	111.3	111.3	82.0
BGP703 LED140-4S/740	12460.0	85.0	146.6	1.197	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED140-4S/730	12460.0	92.0	135.4	1.296	0.036	0.027	0.027	0.02	105.5	79.1	79.1	58.6
BGP703 LED140-4S/727	12460.0	104.0	119.8	1.465	0.041	0.031	0.031	0.023	120.1	90.8	90.8	67.4
BGP703 LED140-4S/830	12460.0	104.0	119.8	1.465	0.041	0.031	0.031	0.023	120.1	90.8	90.8	67.4
BGP703 LED150-4S/740	13350.0	93.0	143.5	1.31	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED150-4S/730	13350.0	99.0	134.8	1.394	0.036	0.027	0.027	0.02	105.5	79.1	79.1	58.6
BGP703 LED150-4S/727	13200.0	114.0	115.8	1.606	0.043	0.032	0.032	0.024	126.0	93.8	93.8	70.3
BGP703 LED150-4S/830	13200.0	114.0	115.8	1.606	0.043	0.032	0.032	0.024	126.0	93.8	93.8	70.3
BGP703 LED160-4S/740	14240.0	100.0	142.4	1.408	0.035	0.026	0.026	0.019	102.6	76.2	76.2	55.7
BGP703 LED160-4S/730	14080.0	108.0	130.4	1.521	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5
BGP703 LED169-4S/740	15130.0	106.0	142.7	1.493	0.034	0.026	0.026	0.019	99.6	76.2	76.2	55.7
BGP703 LED169-4S/730	14960.0	118.0	126.8	1.662	0.038	0.028	0.028	0.021	111.3	82.0	82.0	61.5

* 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.

