

STATEMENT OF LIFE CYCLE ASSESSMENT STUDY

Page 1 of 3

BEST SYSTEMS GMBH

Client address:

Siebenhirtenstrasse 12A - Objekt 5,A-1230 Vienna, Austria

Manufacturing address:

NO.3 Shiheshan Rd. Dongshan Town, Wuzhong District, Suzhou City, Jiangsu Province, P. R. China

Products:

BLUP Series Portable Lightboxes, including 4 specifications: BLUP-88-200-ABS, BLUP-100-200-ABS, BLUP-200-200-ABS and BLUP-600-200-ABS.

Specification(s):

- EN 15804+A2:2019, Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
- ISO 14044:2006+A1:2018+A2:2020, Environmental management — Life cycle assessment — Requirements and guidelines

Report Boundary:

Cradle to grave

Functional Unit:

a lightbox providing lighting that delivers an outgoing artificial luminous flux of 1,000 lumens during a RSL of 50,000 hours.

LCA Result:

See appendix

Period covered:

2023.10.01 to 2024.09.30

Cut-off criteria:

The cardboard packaging of the upstream raw materials accounts for 1% of the total product weight, therefore, this activity is cut off in accordance with the cut off rules.

Report No.:

GC51161268-02.EN04

Issue Date: 2025-03-03
Signature:


Kelly Chen


This statement is prepared by TÜV Rheinland based on client's life cycle inventory. This statement does not permit the use of a TÜV Rheinland mark of conformity.

TÜV Rheinland (Shanghai) Co., Ltd.

No.177, Lane 777, West Guangzhong Road Jingan District, Shanghai, China, 200072

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Appendix

Life Cycle Assessment Result:

Page 2 of 3

Impact Category	Impact Indicators	LCA Results	
		Module A-C	Module D
BLUP-88-200-ABS			
Core Environmental Impact	Climate Change – total [kg CO ₂ eq.]	2.180E+02	-3.451E+00
	Climate Change, fossil [kg CO ₂ eq.]	2.089E+02	-3.442E+00
	Climate Change, biogenic [kg CO ₂ eq.]	8.656E+00	-8.517E-03
	Climate Change, land use and land use change [kg CO ₂ eq.]	4.994E-01	1.800E-04
	Ozone depletion [kg CFC-11 eq.]	3.686E-06	-2.848E-08
	Acidification [Mole of H ⁺ eq.]	1.228E+00	-2.188E-02
	Eutrophication, freshwater [kg P eq.]	1.981E-02	-6.387E-05
	Eutrophication, marine [kg N eq.]	1.684E-01	-2.281E-03
	Eutrophication, terrestrial [Mole of N eq.]	1.921E+00	-2.951E-02
	Photochemical ozone formation [kg NMVOC eq.]	6.114E-01	-8.676E-03
	Depletion of abiotic resources -minerals and metals [kg Sb eq.]	4.424E-03	-3.285E-06
	Depletion of abiotic resources -fossil fuels [MJ, net calorific value]	4.355E+03	-3.700E+01
	Water use [m ³ world eq. deprived]	5.222E+01	-1.023E+01
BLUP-100-200-ABS			
Core Environmental Impact	Climate Change – total [kg CO ₂ eq.]	1.978E+02	-2.756E+00
	Climate Change, fossil [kg CO ₂ eq.]	1.897E+02	-2.749E+00
	Climate Change, biogenic [kg CO ₂ eq.]	7.630E+00	-6.900E-03
	Climate Change, land use and land use change [kg CO ₂ eq.]	4.551E-01	1.438E-04
	Ozone depletion [kg CFC-11 eq.]	3.373E-06	-2.274E-08
	Acidification [Mole of H ⁺ eq.]	1.117E+00	-1.745E-02
	Eutrophication, freshwater [kg P eq.]	1.804E-02	-4.922E-05
	Eutrophication, marine [kg N eq.]	1.526E-01	-1.807E-03
	Eutrophication, terrestrial [Mole of N eq.]	1.744E+00	-2.356E-02
	Photochemical ozone formation [kg NMVOC eq.]	5.547E-01	-6.920E-03
	Depletion of abiotic resources -minerals and metals [kg Sb eq.]	3.747E-03	-2.552E-06
	Depletion of abiotic resources -fossil fuels [MJ, net calorific value]	3.987E+03	-2.956E+01
	Water use [m ³ world eq. deprived]	4.742E+01	-8.176E+00
BLUP-200-200-ABS			
Core Environmental Impact	Climate Change – total [kg CO ₂ eq.]	1.870E+02	-2.044E+00
	Climate Change, fossil [kg CO ₂ eq.]	1.797E+02	-2.039E+00
	Climate Change, biogenic [kg CO ₂ eq.]	6.816E+00	-4.959E-03
	Climate Change, land use and land use change [kg CO ₂ eq.]	4.340E-01	1.099E-04
	Ozone depletion [kg CFC-11 eq.]	3.226E-06	-1.659E-08
	Acidification [Mole of H ⁺ eq.]	1.052E+00	-1.280E-02
	Eutrophication, freshwater [kg P eq.]	1.725E-02	-3.087E-05
	Eutrophication, marine [kg N eq.]	1.409E-01	-1.260E-03
	Eutrophication, terrestrial [Mole of N eq.]	1.615E+00	-1.744E-02
	Photochemical ozone formation [kg NMVOC eq.]	5.140E-01	-5.120E-03
	Depletion of abiotic resources -minerals and metals [kg Sb eq.]	2.983E-03	-1.738E-06
	Depletion of abiotic resources -fossil fuels [MJ, net calorific value]	3.816E+03	-2.193E+01
	Water use [m ³ world eq. deprived]	4.430E+01	-6.075E+00

Appendix

Life Cycle Assessment Result:

Page 3 of 3

Impact Category	Impact Indicators	LCA Results	
		Module A-C	Module D
BLUP-600-200-ABS			
Core Environmental Impact	Climate Change – total [kg CO ₂ eq.]	1.781E+02	-1.567E+00
	Climate Change, fossil [kg CO ₂ eq.]	1.714E+02	-1.563E+00
	Climate Change, biogenic [kg CO ₂ eq.]	6.248E+00	-4.216E-03
	Climate Change, land use and land use change [kg CO ₂ eq.]	4.148E-01	8.663E-05
	Ozone depletion [kg CFC-11 eq.]	3.078E-06	-1.252E-08
	Acidification [Mole of H ⁺ eq.]	1.001E+00	-9.727E-03
	Eutrophication, freshwater [kg P eq.]	1.681E-02	-2.291E-05
	Eutrophication, marine [kg N eq.]	1.341E-01	-8.904E-04
	Eutrophication, terrestrial [Mole of N eq.]	1.541E+00	-1.335E-02
	Photochemical ozone formation [kg NMVOC eq.]	4.887E-01	-3.917E-03
	Depletion of abiotic resources -minerals and metals [kg Sb eq.]	3.667E-03	-1.309E-06
	Depletion of abiotic resources -fossil fuels [MJ, net calorific value]	3.654E+03	-1.683E+01
	Water use [m ³ world eq. deprived]	4.200E+01	-4.668E+00

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