STATEMENT OF LIFE CYCLE ASSESSMENT STUDY

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: LUP Series Portable Lightboxes, including 4 specifications: LUP-85-200-ABS, LUP-85-200-cardboard, LUP-100-200-ABS and LUP-100-200-cardboard.	
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.:	GC51161268-01.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.

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Appendix

Life Cycle Assessment Result:

Impact Category	Impact Indicators	LCA Results	
		Module A-C	Module D
LUP-85-200-ABS			
Core Environmental Impact	Climate Change – total [kg CO_2 eq.]	1.716E+02	-1.953E+00
	Climate Change, fossil [kg CO_2 eq.]	1.644E+02	-1.948E+00
	Climate Change, biogenic [kg CO_2 eq.]	6.742E+00	-5.510E-03
	Climate Change, land use and land use change [kg CO_2 eq.]	3.834E-01	1.128E-04
	Ozone depletion [kg CFC-11 eq.]	2.786E-06	-1.511E-08
	Acidification [Mole of H^+ eq.]	9.685E-01	-1.177E-02
	Eutrophication, freshwater [kg P eq.]	1.580E-02	-1.085E-05
	Eutrophication, marine [kg N eq.]	1.356E-01	-8.555E-04
	Eutrophication, terrestrial [Mole of N eq.]	1.535E+00	-1.653E-02
	Photochemical ozone formation [kg NMVOC eq.]	4.842E-01	-4.786E-03
	Depletion of abiotic resources -minerals and metals [kg Sb eq.]	3.155E-03	-9.488E-07
	Depletion of abiotic resources -fossil fuels [MJ, net calorific value]	3.346E+03	-2.109E+01
	Water use [m^3 world eq. deprived]	4.029E+01	-5.904E+00
LUP-85-200-cardboard			
Core Environmental Impact	Climate Change – total [kg CO_2 eq.]	1.688E+02	-1.953E+00
	Climate Change, fossil [kg CO_2 eq.]	1.617E+02	-1.947E+00
	Climate Change, biogenic [kg CO_2 eq.]	6.727E+00	-6.604E-03
	Climate Change, land use and land use change [kg CO_2 eq.]	3.830E-01	1.130E-04
	Ozone depletion [kg CFC-11 eq.]	2.763E-06	-1.520E-08
	Acidification [Mole of H^+ eq.]	9.577E-01	-1.177E-02
	Eutrophication, freshwater [kg P eq.]	1.576E-02	-1.086E-05
	Eutrophication, marine [kg N eq.]	1.338E-01	-8.560E-04
	Eutrophication, terrestrial [Mole of N eq.]	1.515E+00	-1.653E-02
	Photochemical ozone formation [kg NMVOC eq.]	4.751E-01	-4.787E-03
	Depletion of abiotic resources -minerals and metals [kg Sb eq.]	3.152E-03	-9.557E-07
	Depletion of abiotic resources -fossil fuels [MJ, net calorific value]	3.290E+03	-2.110E+01
	Water use [m^3 world eq. deprived]	3.894E+01	-5.904E+00
LUP-100-200-ABS			
Core Environmental Impact	Climate Change – total [kg CO_2 eq.]	1.721E+02	-2.040E+00
	Climate Change, fossil [kg CO_2 eq.]	1.649E+02	-2.034E+00
	Climate Change, biogenic [kg CO_2 eq.]	6.818E+00	-5.807E-03
	Climate Change, land use and land use change [kg CO_2 eq.]	3.844E-01	1.167E-04
	Ozone depletion [kg CFC-11 eq.]	2.791E-06	-1.590E-08
	Acidification [Mole of H^+ eq.]	9.712E-01	-1.233E-02
	Eutrophication, freshwater [kg P eq.]	1.581E-02	-1.090E-05
	Eutrophication, marine [kg N eq.]	1.361E-01	-9.229E-04
	Eutrophication, terrestrial [Mole of N eq.]	1.540E+00	-1.726E-02
	Photochemical ozone formation [kg NMVOC eq.]	4.859E-01	-4.998E-03
	Depletion of abiotic resources -minerals and metals [kg Sb eq.]	3.158E-03	-9.696E-07
	Depletion of abiotic resources -fossil fuels [MJ, net calorific value]	3.351E+03	-2.203E+01
	Water use [m^3 world eq. deprived]	4.035E+01	-6.166E+00

Appendix

Life Cycle Assessment Result:

Impact Category	Impact Indicators	LCA Results	
		Module A-C	Module D
LUP-100-200-cardboard			
Core Environmental Impact	Climate Change – total [kg CO_2 eq.]	1.686E+02	-2.041E+00
	Climate Change, fossil [kg CO_2 eq.]	1.621E+02	-2.034E+00
	Climate Change, biogenic [kg CO_2 eq.]	6.109E+00	-6.901E-03
	Climate Change, land use and land use change [kg CO_2 eq.]	3.840E-01	1.169E-04
	Ozone depletion [kg CFC-11 eq.]	2.769E-06	-1.598E-08
	Acidification [Mole of H^+ eq.]	9.601E-01	-1.233E-02
	Eutrophication, freshwater [kg P eq.]	1.577E-02	-1.090E-05
	Eutrophication, marine [kg N eq.]	1.340E-01	-9.234E-04
	Eutrophication, terrestrial [Mole of N eq.]	1.519E+00	-1.727E-02
	Photochemical ozone formation [kg NMVOC eq.]	4.763E-01	-5.000E-03
	Depletion of abiotic resources -minerals and metals [kg Sb eq.]	3.156E-03	-9.765E-07
	Depletion of abiotic resources -fossil fuels [MJ, net calorific value]	3.294E+03	-2.204E+01
	Water use [m^3 world eq. deprived]	3.901E+01	-6.166E+00