

Carbon Emission Inventory



TRILUX GmbH & Co. KG  
Heidestraße 4, D-59759 Arnsberg



Planar LED Downlight  
2325 G3 C05 S OA LED 20/14/08/ML-840 ET

Modle	Name	Value	Unit	Carbon Emission ( kg CO2eq)
A1	Aluminum base PCB	24,01	g	0,2834
	Diode	1,66	g	0,4186
	Driver printed circuit boards	7,75	g	0,2524
	Chip Resistor	0,11	g	0,0060
	Fuse Resistor	0,52	g	0,0154
	Varistor	0,57	g	0,0190
	Chip Capacitor	0,11	g	0,0085
	Electrolytic capacitor	3,98	g	0,2430
	Film Capacitor	1,52	g	0,0706
	Safety capacitor	1,33	g	0,0668
	Inductor	1,14	g	0,0460
	Transformer	22,75	g	0,1161
	Integrated circuit	0,16	g	0,2466
	Electrical cables	9,54	g	0,0542
	Tin Bar	3,76	g	0,0370
	Brass	4,50	g	0,0390
	91.5%PA 8.5%GF	121,80	g	1,3064
	75%PBT 25%GF	58,44	g	0,2694
	70%PBT 30%GF	0,36	g	0,0016
	Epoxy Resin	0,26	g	0,0013
	Stainless steel	0,67	g	0,0049
	Polyvinyl Chloride	10,40	g	0,0430
	Polycarbonate	53,02	g	0,5351
	PA66	3,47	g	0,0355
	Screw	3,35	g	0,0144
	Non-alloy steels	7,83	g	0,0305
	Wooden pallets	52,80	g	0,0164
	Manuals	14,50	g	0,0409
	Corrugated cardboard	163,17	g	0,1618
A2	lorry	63,05	kgkm	0,0338
A3	Electricity	96,79	wh	0,0695
	lorry	0,19	kgkm	0,0001
A4	lorry	11,50	kgkm	0,0020
	Ferry	14375,00	kgkm	0,1345
	lorry	178,25	kgkm	0,0304
	lorry	1345,50	kgkm	0,2295
A5	Electricity	0,83	wh	0,0003
	lorry	11,52	kgkm	0,0020
B6	Electricity	825,00	kWh	325,0832
C1	Dismantling	343,00	g	0,1078
C2	lorry	34,30	kgkm	0,0059
C3	recycling process	/	/	0,0895
C4	landfill	45,88	g	0,0281
D	Recycled packing materials	230,47	g	-0,0576
	Recycled of metal	15,53	g	-0,0254
	Recycled mixed plastics	215,37	g	-0,4606
	Recycled of electronics scrap	63,14	g	0,0675

Carbon Emission Inventory



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Planar LED Downlight  
2325 G3 C07 S OA LED 20/14/08/ML-840 ET

Modle	Name	Value	Unit	Carbon Emission ( kg CO2eq)
A1	Aluminum base PCB	45,36	g	0,5354
	Diode	1,66	g	0,4186
	Driver printed circuit boards	7,75	g	0,2524
	Chip Resistor	0,11	g	0,0060
	Fuse Resistor	0,52	g	0,0154
	Varistor	0,57	g	0,0190
	Chip Capacitor	0,11	g	0,0085
	Electrolytic capacitor	3,98	g	0,2430
	Film Capacitor	1,52	g	0,0706
	Safety capacitor	1,33	g	0,0668
	Inductor	1,14	g	0,0460
	Transformer	22,75	g	0,1161
	Integrated circuit	0,16	g	0,2466
	Electrical cables	9,54	g	0,0542
	Tin Bar	3,76	g	0,0370
	Brass	4,495	g	0,0390
	91.5%PA 8.5%GF	205	g	2,1988
	75%PBT 25%GF	58,44	g	0,2694
	70%PBT 30%GF	0,36	g	0,0016
	Epoxy Resin	0,28	g	0,0014
	Stainless steel	0,67	g	0,0049
	Polyvinyl Chloride	10,4	g	0,0430
	Polycarbonate	83,9	g	0,8468
	PA66	3,47	g	0,0355
	Screw	3,35	g	0,0144
	Non-alloy steels	7,83	g	0,0305
	Wooden pallets	95,8	g	0,0297
	Manuals	14,5	g	0,0409
	Corrugated cardboard	207,8	g	0,2061
A2	lorry	84,5	kgkm	0,0453
A3	Electricity	96,79	wh	0,0695
	lorry	0,289	kgkm	0,0002
A4	lorry	16	kgkm	0,0027
	Ferry	20000	kgkm	0,1872
	lorry	248	kgkm	0,0423
	lorry	1872	kgkm	0,3194
A5	Electricity	0,83	wh	0,0003
	lorry	15,89194444	kgkm	0,0027
B6	Electricity	825	kWh	325,0832
C1	Dismantling	479	g	0,1506
C2	lorry	47,9	kgkm	0,0082
C3	recycling process	/	/	0,1315
C4	landfill	60,88837698	g	0,0374
D	Recycled packing materials	318,1	g	-0,0795
	Recycled of metal	15,78137931	g	-0,0258
	Recycled mixed plastics	316,5465258	g	-0,6769
	Recycled of electronics scrap	82,14871795	g	0,0879