

APPENDIX 1

MATERIAL COMPOSITION

The product material composition is illustrated in the table below. The material weight is given in grams and in percentage on total product weight.

Table 1: Material composition

Material	Weight (g)	Weight-%
Aluminium	4954.0	64.31
Copper	34.25	0.44
Other Plastics	2233.06	28.99
Paint	128.0	1.66
PCB Alu	55.8	0.72
PCB Copper	41.01	0.53
PCB Iron	32.85	0.43
PCB Non-ferrous metal	0.02	0.0
PCB Support	135.99	1.77
PCB Tin	2.26	0.03
Silica Sand	1.0	0.01
Stainless Steel	2.0	0.03



Steel

83.52

1.08

APPENDIX 2

USE PHASE (B6) VALUES FOR DIFFERENT COUNTRY MIX

In this EPD the B6 impact has been calculated using the energy mix of EU. The table in this appendix 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:

If for example this 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, RESULTS PER DECLARED UNIT

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

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	4.44E-01	4.75E-03	2.34E-02	4.72E-01	9.50E-04	8.13E-03	ND	ND	ND	ND	ND	4.06E-02	ND	0.00E+00	5.50E-04	2.23E-03	7.33E-04	-2.82E-02

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 = 1.54E-01).

Thus, the calculation of this example would be:

New B6 GWP tot for Finland = $(4.06E-02 / 3.30E-01) \times 1.54E-01 = 1.89E-02$.

Country	GWP tot (kg CO2 eq. per kwh)		
AFRICA	7.30E-01	GERMANY	3.90E-01
APAC	9.50E-01	INDIA	1.50E+00
AUSTRALIA	8.40E-01	ITALY	3.50E-01
AUSTRIA	2.30E-01	LATAM	3.90E-01
BELGIUM	2.00E-01	NAM	4.50E-01
CHINA	1.02E+00	NETHERLANDS	3.90E-01
DENMARK	1.60E-01	NORWAY	4.50E-02
EU	3.30E-01	ROW	7.30E-01
FINLAND	1.54E-01	SPAIN	2.10E-01
FRANCE	8.70E-02	SWEDEN	3.70E-02
		UK	2.60E-01

Source Ecoinvent 3.10.1

APPENDIX 3 - EPD HUB ALIGNED

This section represents the scaling method for the **B6 module**, following the PEP EcoPassport PSR for luminaires (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 1: 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.

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

The following list of product configurations is not exhaustive. Please use the formula defined in point 1 above to calculate the exact power scaling factor (PSF) for any specific configuration.

Table 2: GWP per scaling factor (EPD Hub aligned)

	12NC or Product Family Code	Description	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
1	BDP262	BDP262LED8-4S740DM33	608	5.7	106.7	0.385	0.385	0.289	0.289	0.212	187.5	140.7	140.7	103.2
2	BDP262	BDP262LED10-4S740DM33	760	6.9	110.1	0.466	0.466	0.35	0.35	0.256	226.9	170.4	170.4	124.7
3	BDP262	BDP262LED12-4S740DM33	912	7.9	115.4	0.534	0.534	0.401	0.401	0.294	260.0	195.3	195.3	143.2
4	BDP262	BDP262LED14-4S740DM33	1064	8.9	119.6	0.601	0.601	0.451	0.451	0.331	292.6	219.6	219.6	161.2
5	BDP262	BDP262LED16-4S740DM33	1216	10.0	121.6	0.676	0.676	0.507	0.507	0.372	329.2	246.9	246.9	181.1
6	BDP262	BDP262LED18-4S740DM33	1368	11.2	122.1	0.757	0.757	0.568	0.568	0.416	368.6	276.6	276.6	202.6
7	BDP262	BDP262LED20-4S740DM33	1520	12.4	122.6	0.838	0.838	0.628	0.628	0.461	408.0	305.8	305.8	224.5
8	BDP262	BDP262LED22-4S740DM33	1672	13.4	124.8	0.905	0.905	0.679	0.679	0.498	440.7	330.6	330.6	242.5
9	BDP262	BDP262LED24-4S740DM33	1800	14.8	121.6	1.0	1.0	0.75	0.75	0.55	486.9	365.2	365.2	267.8
10	BDP262	BDP262LED27-4S740DM33	2025	16.6	122.0	1.122	1.122	0.842	0.842	0.617	546.3	410.0	410.0	300.4

11	BDP262	BDP262LED30-4S740DM33	2250	18.6	121.0	1.257	1.257	0.943	0.943	0.691	612.1	459.2	459.2	336.5
12	BDP262	BDP262LED35-4S740DM33	2625	22.0	119.3	1.486	1.486	1.115	1.115	0.817	723.6	542.9	542.9	397.8
13	BDP262	BDP262LED39-4S740DM33	2886	23.0	125.5	1.554	1.554	1.165	1.165	0.855	756.7	567.3	567.3	416.3
14	BDP262	BDP262LED45-4S740DM33	3330	27.0	123.3	1.824	1.824	1.368	1.368	1.003	888.1	666.1	666.1	488.4
15	BDP262	BDP262LED50-4S740DM33	3700	30.0	123.3	2.027	2.027	1.52	1.52	1.115	987.0	740.1	740.1	542.9
16	BDP262	BDP262LED55-4S740DM33	4144	33.0	125.6	2.23	2.23	1.672	1.672	1.227	1085.8	814.1	814.1	597.5
17	BDP262	BDP262LED59-4S740DM33	4440	36.0	123.3	2.432	2.432	1.824	1.824	1.338	1184.2	888.1	888.1	651.5
18	BDP262	BDP262LED64-4S740DM33	4736	39.5	119.9	2.669	2.669	2.002	2.002	1.468	1299.6	974.8	974.8	714.8
19	BDP262	BDP262LED69-4S740DM33	5180	38.5	134.5	2.601	2.601	1.951	1.951	1.431	1266.5	950.0	950.0	696.8
20	BDP262	BDP262LED74-4S740DM33	5476	41.5	132.0	2.804	2.804	2.103	2.103	1.542	1365.3	1024.0	1024.0	750.8
21	BDP262	BDP262LED79-4S740DM33	5772	44.5	129.7	3.007	3.007	2.255	2.255	1.654	1464.2	1098.0	1098.0	805.4
22	BDP262	BDP262LED84-4S740DM33	6132	47.5	129.1	3.209	3.209	2.407	2.407	1.765	1562.5	1172.0	1172.0	859.4
23	BDP262	BDP262LED90-4S740DM33	6570	51.0	128.8	3.446	3.446	2.585	2.585	1.895	1677.9	1258.7	1258.7	922.7
24	BDP262	BDP262LED94-4S740DM33	6862	53.0	129.5	3.581	3.581	2.686	2.686	1.97	1743.7	1307.9	1307.9	959.2

25	BDP262	BDP262LED100-4S740DM33	7200	57.0	126.3	3.851	3.851	2.888	2.888	2.118	1875.1	1406.2	1406.2	1031.3
26	BDP262	BDP262LED8-4S730DM33	608	6.0	101.3	0.405	0.405	0.304	0.304	0.223	197.2	148.0	148.0	108.6
27	BDP262	BDP262LED10-4S730DM33	760	7.2	105.6	0.486	0.486	0.364	0.364	0.267	236.6	177.2	177.2	130.0
28	BDP262	BDP262LED12-4S730DM33	912	8.2	111.2	0.554	0.554	0.416	0.416	0.305	269.8	202.6	202.6	148.5
29	BDP262	BDP262LED14-4S730DM33	1064	9.4	113.2	0.635	0.635	0.476	0.476	0.349	309.2	231.8	231.8	169.9
30	BDP262	BDP262LED16-4S730DM33	1216	10.6	114.7	0.716	0.716	0.537	0.537	0.394	348.6	261.5	261.5	191.8
31	BDP262	BDP262LED18-4S730DM33	1368	11.8	115.9	0.797	0.797	0.598	0.598	0.438	388.1	291.2	291.2	213.3
32	BDP262	BDP262LED20-4S730DM33	1520	13.0	116.9	0.878	0.878	0.658	0.658	0.483	427.5	320.4	320.4	235.2
33	BDP262	BDP262LED22-4S730DM33	1672	14.2	117.7	0.959	0.959	0.719	0.719	0.527	467.0	350.1	350.1	256.6
34	BDP262	BDP262LED24-4S730DM33	1800	15.6	115.4	1.054	1.054	0.79	0.79	0.58	513.2	384.7	384.7	282.4
35	BDP262	BDP262LED27-4S730DM33	2025	17.6	115.1	1.189	1.189	0.892	0.892	0.654	578.9	434.3	434.3	318.4
36	BDP262	BDP262LED30-4S730DM33	2250	19.8	113.6	1.338	1.338	1.004	1.004	0.736	651.5	488.9	488.9	358.4
37	BDP262	BDP262LED35-4S730DM33	2625	23.5	111.7	1.588	1.588	1.191	1.191	0.873	773.2	579.9	579.9	425.1
38	BDP262	BDP262LED39-4S730DM33	2886	24.5	117.8	1.655	1.655	1.241	1.241	0.91	805.9	604.3	604.3	443.1

39	BDP262	BDP262LED45-4S730DM33	3330	28.5	116.8	1.926	1.926	1.444	1.444	1.059	937.8	703.1	703.1	515.6
40	BDP262	BDP262LED50-4S730DM33	3700	32.0	115.6	2.162	2.162	1.621	1.621	1.189	1052.7	789.3	789.3	578.9
41	BDP262	BDP262LED55-4S730DM33	4144	35.5	116.7	2.399	2.399	1.799	1.799	1.319	1168.1	876.0	876.0	642.2
42	BDP262	BDP262LED59-4S730DM33	4440	38.5	115.3	2.601	2.601	1.951	1.951	1.431	1266.5	950.0	950.0	696.8
43	BDP262	BDP262LED64-4S730DM33	4736	38.0	124.6	2.568	2.568	1.926	1.926	1.412	1250.4	937.8	937.8	687.5
44	BDP262	BDP262LED69-4S730DM33	5180	41.0	126.3	2.77	2.77	2.078	2.078	1.524	1348.8	1011.8	1011.8	742.1
45	BDP262	BDP262LED74-4S730DM33	5476	44.0	124.5	2.973	2.973	2.23	2.23	1.635	1447.6	1085.8	1085.8	796.1
46	BDP262	BDP262LED79-4S730DM33	5840	47.5	122.9	3.209	3.209	2.407	2.407	1.765	1562.5	1172.0	1172.0	859.4
47	BDP262	BDP262LED84-4S730DM33	6132	51.0	120.2	3.446	3.446	2.585	2.585	1.895	1677.9	1258.7	1258.7	922.7
48	BDP262	BDP262LED90-4S730DM33	6570	54.0	121.7	3.649	3.649	2.737	2.737	2.007	1776.8	1332.7	1332.7	977.2
49	BDP262	BDP262LED94-4S730DM33	6768	57.0	118.7	3.851	3.851	2.888	2.888	2.118	1875.1	1406.2	1406.2	1031.3
50	BDP262	BDP262LED100-4S730DM33	7200	61.0	118.0	4.122	4.122	3.091	3.091	2.267	2007.1	1505.1	1505.1	1103.8
51	BDP262	BDP262LED7-4S727DM33	532	5.9	90.2	0.399	0.399	0.299	0.299	0.219	194.3	145.6	145.6	106.6
52	BDP262	BDP262LED9-4S727DM33	684	7.2	95.0	0.486	0.486	0.364	0.364	0.267	236.6	177.2	177.2	130.0

53	BDP262	BDP262LED11-4S727DM33	836	8.4	99.5	0.568	0.568	0.426	0.426	0.312	276.6	207.4	207.4	151.9
54	BDP262	BDP262LED13-4S727DM33	988	9.7	101.9	0.655	0.655	0.491	0.491	0.36	318.9	239.1	239.1	175.3
55	BDP262	BDP262LED14-4S727DM33	1064	10.4	102.3	0.703	0.703	0.527	0.527	0.387	342.3	256.6	256.6	188.4
56	BDP262	BDP262LED16-4S727DM33	1216	11.8	103.1	0.797	0.797	0.598	0.598	0.438	388.1	291.2	291.2	213.3
57	BDP262	BDP262LED18-4S727DM33	1368	13.2	103.6	0.892	0.892	0.669	0.669	0.491	434.3	325.7	325.7	239.1
58	BDP262	BDP262LED20-4S727DM33	1500	14.6	102.7	0.986	0.986	0.74	0.74	0.542	480.1	360.3	360.3	263.9
59	BDP262	BDP262LED22-4S727DM33	1650	16.0	103.1	1.081	1.081	0.811	0.811	0.595	526.4	394.9	394.9	289.7
60	BDP262	BDP262LED24-4S727DM33	1800	17.6	102.3	1.189	1.189	0.892	0.892	0.654	578.9	434.3	434.3	318.4
61	BDP262	BDP262LED27-4S727DM33	2025	20.0	101.2	1.351	1.351	1.013	1.013	0.743	657.8	493.2	493.2	361.8
62	BDP262	BDP262LED30-4S727DM33	2250	22.5	100.0	1.52	1.52	1.14	1.14	0.836	740.1	555.1	555.1	407.1
63	BDP262	BDP262LED35-4S727DM33	2625	26.5	99.1	1.791	1.791	1.343	1.343	0.985	872.1	653.9	653.9	479.6
64	BDP262	BDP262LED39-4S727DM33	2886	27.5	104.9	1.858	1.858	1.393	1.393	1.022	904.7	678.3	678.3	497.6
65	BDP262	BDP262LED45-4S727DM33	3330	32.0	104.1	2.162	2.162	1.621	1.621	1.189	1052.7	789.3	789.3	578.9
66	BDP262	BDP262LED50-4S727DM33	3700	36.0	102.8	2.432	2.432	1.824	1.824	1.338	1184.2	888.1	888.1	651.5

67	BDP262	BDP262LED55-4S727DM33	4088	40.5	100.9	2.736	2.736	2.052	2.052	1.505	1332.2	999.2	999.2	732.8
68	BDP262	BDP262LED59-4S727DM33	4440	39.5	112.4	2.669	2.669	2.002	2.002	1.468	1299.6	974.8	974.8	714.8
69	BDP262	BDP262LED64-4S727DM33	4736	42.5	111.4	2.872	2.872	2.154	2.154	1.58	1398.4	1048.8	1048.8	769.3
70	BDP262	BDP262LED69-4S727DM33	5180	46.5	111.4	3.142	3.142	2.357	2.357	1.728	1529.9	1147.7	1147.7	841.4
71	BDP262	BDP262LED74-4S727DM33	5402	50.0	108.0	3.378	3.378	2.534	2.534	1.858	1644.8	1233.9	1233.9	904.7
72	BDP262	BDP262LED79-4S727DM33	5840	53.0	110.2	3.581	3.581	2.686	2.686	1.97	1743.7	1307.9	1307.9	959.2
73	BDP262	BDP262LED84-4S727DM33	6048	57.0	106.1	3.851	3.851	2.888	2.888	2.118	1875.1	1406.2	1406.2	1031.3
74	BDP262	BDP262LED90-4S727DM33	6480	62.0	104.5	4.189	4.189	3.142	3.142	2.304	2039.7	1529.9	1529.9	1121.9
75	BDP262	BDP262LED94-4S727DM33	6768	65.0	104.1	4.392	4.392	3.294	3.294	2.416	2138.6	1603.9	1603.9	1176.4
76	BDP262	BDP262LED100-4S727DM33	7100	69.0	102.9	4.662	4.662	3.497	3.497	2.564	2270.0	1702.8	1702.8	1248.5
77	BDP262	BDP262LED7-4S722DM33	532	6.5	81.8	0.439	0.439	0.329	0.329	0.241	213.8	160.2	160.2	117.3
78	BDP262	BDP262LED9-4S722DM33	684	7.8	87.7	0.527	0.527	0.395	0.395	0.29	256.6	192.3	192.3	141.2
79	BDP262	BDP262LED11-4S722DM33	836	9.2	90.9	0.622	0.622	0.467	0.467	0.342	302.9	227.4	227.4	166.5
80	BDP262	BDP262LED12-4S722DM33	912	10.0	91.2	0.676	0.676	0.507	0.507	0.372	329.2	246.9	246.9	181.1

81	BDP262	BDP262LED14-4S722DM33	1064	11.6	91.7	0.784	0.784	0.588	0.588	0.431	381.7	286.3	286.3	209.9
82	BDP262	BDP262LED16-4S722DM33	1216	13.0	93.5	0.878	0.878	0.658	0.658	0.483	427.5	320.4	320.4	235.2
83	BDP262	BDP262LED18-4S722DM33	1350	14.6	92.5	0.986	0.986	0.74	0.74	0.542	480.1	360.3	360.3	263.9
84	BDP262	BDP262LED20-4S722DM33	1500	16.4	91.5	1.108	1.108	0.831	0.831	0.609	539.5	404.6	404.6	296.5
85	BDP262	BDP262LED22-4S722DM33	1650	18.0	91.7	1.216	1.216	0.912	0.912	0.669	592.1	444.1	444.1	325.7
86	BDP262	BDP262LED24-4S722DM33	1800	19.8	90.9	1.338	1.338	1.004	1.004	0.736	651.5	488.9	488.9	358.4
87	BDP262	BDP262LED27-4S722DM33	2025	22.5	90.0	1.52	1.52	1.14	1.14	0.836	740.1	555.1	555.1	407.1
88	BDP262	BDP262LED30-4S722DM33	2250	25.5	88.2	1.723	1.723	1.292	1.292	0.948	839.0	629.1	629.1	461.6
89	BDP262	BDP262LED35-4S722DM33	2590	27.5	94.2	1.858	1.858	1.393	1.393	1.022	904.7	678.3	678.3	497.6
90	BDP262	BDP262LED39-4S722DM33	2886	31.0	93.1	2.095	2.095	1.571	1.571	1.152	1020.1	765.0	765.0	560.9
91	BDP262	BDP262LED45-4S722DM33	3330	36.5	91.2	2.466	2.466	1.85	1.85	1.356	1200.7	900.8	900.8	660.3
92	BDP262	BDP262LED50-4S722DM33	3700	37.0	100.0	2.5	2.5	1.875	1.875	1.375	1217.3	913.0	913.0	669.5
93	BDP262	BDP262LED55-4S722DM33	3996	41.0	97.5	2.77	2.77	2.078	2.078	1.524	1348.8	1011.8	1011.8	742.1
94	BDP262	BDP262LED59-4S722DM33	4440	44.0	100.9	2.973	2.973	2.23	2.23	1.635	1447.6	1085.8	1085.8	796.1

95	BDP262	BDP262LED64-4S722DM33	4672	48.0	97.3	3.243	3.243	2.432	2.432	1.784	1579.1	1184.2	1184.2	868.7
96	BDP262	BDP262LED69-4S722DM33	5110	52.0	98.3	3.514	3.514	2.635	2.635	1.933	1711.0	1283.0	1283.0	941.2
97	BDP262	BDP262LED74-4S722DM33	5402	56.0	96.5	3.784	3.784	2.838	2.838	2.081	1842.5	1381.9	1381.9	1013.3
98	BDP262	BDP262LED8-4S840DM33	608	6.4	95.0	0.432	0.432	0.324	0.324	0.238	210.3	157.8	157.8	115.9
99	BDP262	BDP262LED10-4S840DM33	760	7.6	100.0	0.514	0.514	0.386	0.386	0.283	250.3	188.0	188.0	137.8
100	BDP262	BDP262LED12-4S840DM33	912	8.8	103.6	0.595	0.595	0.446	0.446	0.327	289.7	217.2	217.2	159.2

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.

$$PGSF = PSF * GSF$$

- 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 3: 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

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

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

Table 4: Impact per scaling factor (PEP EcoPassport aligned)

	12NC or Product Family Code	Description	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
1	BDP262	BDP262LED8-4S740DM33	608	5.7	106.7	0.385	0.222	0.167	0.167	0.122	108.1	81.3	81.3	59.4
2	BDP262	BDP262LED10-4S740DM33	760	6.9	110.1	0.466	0.215	0.161	0.161	0.118	104.7	78.4	78.4	57.5
3	BDP262	BDP262LED12-4S740DM33	912	7.9	115.4	0.534	0.205	0.154	0.154	0.113	99.8	75.0	75.0	55.0
4	BDP262	BDP262LED14-4S740DM33	1064	8.9	119.6	0.601	0.198	0.149	0.149	0.109	96.4	72.6	72.6	53.1
5	BDP262	BDP262LED16-4S740DM33	1216	10.0	121.6	0.676	0.195	0.146	0.146	0.107	94.9	71.1	71.1	52.1
6	BDP262	BDP262LED18-4S740DM33	1368	11.2	122.1	0.757	0.194	0.146	0.146	0.107	94.5	71.1	71.1	52.1
7	BDP262	BDP262LED20-4S740DM33	1520	12.4	122.6	0.838	0.193	0.145	0.145	0.106	94.0	70.6	70.6	51.6
8	BDP262	BDP262LED22-4S740DM33	1672	13.4	124.8	0.905	0.189	0.142	0.142	0.104	92.0	69.1	69.1	50.6
9	BDP262	BDP262LED24-4S740DM33	1800	14.8	121.6	1.0	0.194	0.146	0.146	0.107	94.5	71.1	71.1	52.1
10	BDP262	BDP262LED27-4S740DM33	2025	16.6	122.0	1.122	0.194	0.146	0.146	0.107	94.5	71.1	71.1	52.1
11	BDP262	BDP262LED30-4S740DM33	2250	18.6	121.0	1.257	0.196	0.147	0.147	0.108	95.4	71.6	71.6	52.6
12	BDP262	BDP262LED35-4S740DM33	2625	22.0	119.3	1.486	0.198	0.149	0.149	0.109	96.4	72.6	72.6	53.1

13	BDP262	BDP262LED39-4S740DM33	2886	23.0	125.5	1.554	0.188	0.141	0.141	0.103	91.5	68.7	68.7	50.2
14	BDP262	BDP262LED45-4S740DM33	3330	27.0	123.3	1.824	0.192	0.144	0.144	0.106	93.5	70.1	70.1	51.6
15	BDP262	BDP262LED50-4S740DM33	3700	30.0	123.3	2.027	0.193	0.145	0.145	0.106	94.0	70.6	70.6	51.6
16	BDP262	BDP262LED55-4S740DM33	4144	33.0	125.6	2.23	0.187	0.14	0.14	0.103	91.1	68.2	68.2	50.2
17	BDP262	BDP262LED59-4S740DM33	4440	36.0	123.3	2.432	0.192	0.144	0.144	0.106	93.5	70.1	70.1	51.6
18	BDP262	BDP262LED64-4S740DM33	4736	39.5	119.9	2.669	0.198	0.149	0.149	0.109	96.4	72.6	72.6	53.1
19	BDP262	BDP262LED69-4S740DM33	5180	38.5	134.5	2.601	0.177	0.133	0.133	0.097	86.2	64.8	64.8	47.2
20	BDP262	BDP262LED74-4S740DM33	5476	41.5	132.0	2.804	0.179	0.134	0.134	0.098	87.2	65.2	65.2	47.7
21	BDP262	BDP262LED79-4S740DM33	5772	44.5	129.7	3.007	0.183	0.137	0.137	0.101	89.1	66.7	66.7	49.2
22	BDP262	BDP262LED84-4S740DM33	6132	47.5	129.1	3.209	0.183	0.137	0.137	0.101	89.1	66.7	66.7	49.2
23	BDP262	BDP262LED90-4S740DM33	6570	51.0	128.8	3.446	0.183	0.137	0.137	0.101	89.1	66.7	66.7	49.2
24	BDP262	BDP262LED94-4S740DM33	6862	53.0	129.5	3.581	0.183	0.137	0.137	0.101	89.1	66.7	66.7	49.2
25	BDP262	BDP262LED100-4S740DM33	7200	57.0	126.3	3.851	0.189	0.142	0.142	0.104	92.0	69.1	69.1	50.6
26	BDP262	BDP262LED8-4S730DM33	608	6.0	101.3	0.405	0.233	0.175	0.175	0.128	113.5	85.2	85.2	62.3

27	BDP262	BDP262LED10-4S730DM33	760	7.2	105.6	0.486	0.224	0.168	0.168	0.123	109.1	81.8	81.8	59.9
28	BDP262	BDP262LED12-4S730DM33	912	8.2	111.2	0.554	0.213	0.16	0.16	0.117	103.7	77.9	77.9	57.0
29	BDP262	BDP262LED14-4S730DM33	1064	9.4	113.2	0.635	0.209	0.157	0.157	0.115	101.8	76.4	76.4	56.0
30	BDP262	BDP262LED16-4S730DM33	1216	10.6	114.7	0.716	0.206	0.154	0.154	0.113	100.3	75.0	75.0	55.0
31	BDP262	BDP262LED18-4S730DM33	1368	11.8	115.9	0.797	0.204	0.153	0.153	0.112	99.3	74.5	74.5	54.5
32	BDP262	BDP262LED20-4S730DM33	1520	13.0	116.9	0.878	0.202	0.152	0.152	0.111	98.4	74.0	74.0	54.0
33	BDP262	BDP262LED22-4S730DM33	1672	14.2	117.7	0.959	0.2	0.15	0.15	0.11	97.4	73.0	73.0	53.6
34	BDP262	BDP262LED24-4S730DM33	1800	15.6	115.4	1.054	0.204	0.153	0.153	0.112	99.3	74.5	74.5	54.5
35	BDP262	BDP262LED27-4S730DM33	2025	17.6	115.1	1.189	0.206	0.154	0.154	0.113	100.3	75.0	75.0	55.0
36	BDP262	BDP262LED30-4S730DM33	2250	19.8	113.6	1.338	0.209	0.157	0.157	0.115	101.8	76.4	76.4	56.0
37	BDP262	BDP262LED35-4S730DM33	2625	23.5	111.7	1.588	0.211	0.158	0.158	0.116	102.7	76.9	76.9	56.5
38	BDP262	BDP262LED39-4S730DM33	2886	24.5	117.8	1.655	0.2	0.15	0.15	0.11	97.4	73.0	73.0	53.6
39	BDP262	BDP262LED45-4S730DM33	3330	28.5	116.8	1.926	0.202	0.152	0.152	0.111	98.4	74.0	74.0	54.0
40	BDP262	BDP262LED50-4S730DM33	3700	32.0	115.6	2.162	0.205	0.154	0.154	0.113	99.8	75.0	75.0	55.0

41	BDP262	BDP262LED55-4S730DM33	4144	35.5	116.7	2.399	0.202	0.152	0.152	0.111	98.4	74.0	74.0	54.0
42	BDP262	BDP262LED59-4S730DM33	4440	38.5	115.3	2.601	0.205	0.154	0.154	0.113	99.8	75.0	75.0	55.0
43	BDP262	BDP262LED64-4S730DM33	4736	38.0	124.6	2.568	0.19	0.143	0.143	0.105	92.5	69.6	69.6	51.1
44	BDP262	BDP262LED69-4S730DM33	5180	41.0	126.3	2.77	0.188	0.141	0.141	0.103	91.5	68.7	68.7	50.2
45	BDP262	BDP262LED74-4S730DM33	5476	44.0	124.5	2.973	0.19	0.143	0.143	0.105	92.5	69.6	69.6	51.1
46	BDP262	BDP262LED79-4S730DM33	5840	47.5	122.9	3.209	0.193	0.145	0.145	0.106	94.0	70.6	70.6	51.6
47	BDP262	BDP262LED84-4S730DM33	6132	51.0	120.2	3.446	0.196	0.147	0.147	0.108	95.4	71.6	71.6	52.6
48	BDP262	BDP262LED90-4S730DM33	6570	54.0	121.7	3.649	0.193	0.145	0.145	0.106	94.0	70.6	70.6	51.6
49	BDP262	BDP262LED94-4S730DM33	6768	57.0	118.7	3.851	0.2	0.15	0.15	0.11	97.4	73.0	73.0	53.6
50	BDP262	BDP262LED100-4S730DM33	7200	61.0	118.0	4.122	0.202	0.152	0.152	0.111	98.4	74.0	74.0	54.0
51	BDP262	BDP262LED7-4S727DM33	532	5.9	90.2	0.399	0.263	0.197	0.197	0.145	128.1	95.9	95.9	70.6
52	BDP262	BDP262LED9-4S727DM33	684	7.2	95.0	0.486	0.249	0.187	0.187	0.137	121.2	91.1	91.1	66.7
53	BDP262	BDP262LED11-4S727DM33	836	8.4	99.5	0.568	0.238	0.178	0.178	0.131	115.9	86.7	86.7	63.8
54	BDP262	BDP262LED13-4S727DM33	988	9.7	101.9	0.655	0.232	0.174	0.174	0.128	113.0	84.7	84.7	62.3

55	BDP262	BDP262LED14-4S727DM33	1064	10.4	102.3	0.703	0.231	0.173	0.173	0.127	112.5	84.2	84.2	61.8
56	BDP262	BDP262LED16-4S727DM33	1216	11.8	103.1	0.797	0.23	0.173	0.173	0.127	112.0	84.2	84.2	61.8
57	BDP262	BDP262LED18-4S727DM33	1368	13.2	103.6	0.892	0.228	0.171	0.171	0.125	111.0	83.3	83.3	60.9
58	BDP262	BDP262LED20-4S727DM33	1500	14.6	102.7	0.986	0.23	0.173	0.173	0.127	112.0	84.2	84.2	61.8
59	BDP262	BDP262LED22-4S727DM33	1650	16.0	103.1	1.081	0.229	0.172	0.172	0.126	111.5	83.8	83.8	61.4
60	BDP262	BDP262LED24-4S727DM33	1800	17.6	102.3	1.189	0.231	0.173	0.173	0.127	112.5	84.2	84.2	61.8
61	BDP262	BDP262LED27-4S727DM33	2025	20.0	101.2	1.351	0.234	0.176	0.176	0.129	113.9	85.7	85.7	62.8
62	BDP262	BDP262LED30-4S727DM33	2250	22.5	100.0	1.52	0.237	0.178	0.178	0.13	115.4	86.7	86.7	63.3
63	BDP262	BDP262LED35-4S727DM33	2625	26.5	99.1	1.791	0.238	0.178	0.178	0.131	115.9	86.7	86.7	63.8
64	BDP262	BDP262LED39-4S727DM33	2886	27.5	104.9	1.858	0.225	0.169	0.169	0.124	109.6	82.3	82.3	60.4
65	BDP262	BDP262LED45-4S727DM33	3330	32.0	104.1	2.162	0.227	0.17	0.17	0.125	110.5	82.8	82.8	60.9
66	BDP262	BDP262LED50-4S727DM33	3700	36.0	102.8	2.432	0.231	0.173	0.173	0.127	112.5	84.2	84.2	61.8
67	BDP262	BDP262LED55-4S727DM33	4088	40.5	100.9	2.736	0.235	0.176	0.176	0.129	114.4	85.7	85.7	62.8
68	BDP262	BDP262LED59-4S727DM33	4440	39.5	112.4	2.669	0.211	0.158	0.158	0.116	102.7	76.9	76.9	56.5

69	BDP262	BDP262LED64-4S727DM33	4736	42.5	111.4	2.872	0.213	0.16	0.16	0.117	103.7	77.9	77.9	57.0
70	BDP262	BDP262LED69-4S727DM33	5180	46.5	111.4	3.142	0.214	0.161	0.161	0.118	104.2	78.4	78.4	57.5
71	BDP262	BDP262LED74-4S727DM33	5402	50.0	108.0	3.378	0.22	0.165	0.165	0.121	107.1	80.3	80.3	58.9
72	BDP262	BDP262LED79-4S727DM33	5840	53.0	110.2	3.581	0.215	0.161	0.161	0.118	104.7	78.4	78.4	57.5
73	BDP262	BDP262LED84-4S727DM33	6048	57.0	106.1	3.851	0.223	0.167	0.167	0.123	108.6	81.3	81.3	59.9
74	BDP262	BDP262LED90-4S727DM33	6480	62.0	104.5	4.189	0.226	0.17	0.17	0.124	110.0	82.8	82.8	60.4
75	BDP262	BDP262LED94-4S727DM33	6768	65.0	104.1	4.392	0.228	0.171	0.171	0.125	111.0	83.3	83.3	60.9
76	BDP262	BDP262LED100-4S727DM33	7100	69.0	102.9	4.662	0.228	0.171	0.171	0.125	111.0	83.3	83.3	60.9
77	BDP262	BDP262LED7-4S722DM33	532	6.5	81.8	0.439	0.289	0.217	0.217	0.159	140.7	105.7	105.7	77.4
78	BDP262	BDP262LED9-4S722DM33	684	7.8	87.7	0.527	0.27	0.203	0.203	0.149	131.5	98.8	98.8	72.6
79	BDP262	BDP262LED11-4S722DM33	836	9.2	90.9	0.622	0.261	0.196	0.196	0.144	127.1	95.4	95.4	70.1
80	BDP262	BDP262LED12-4S722DM33	912	10.0	91.2	0.676	0.26	0.195	0.195	0.143	126.6	94.9	94.9	69.6
81	BDP262	BDP262LED14-4S722DM33	1064	11.6	91.7	0.784	0.258	0.194	0.194	0.142	125.6	94.5	94.5	69.1
82	BDP262	BDP262LED16-4S722DM33	1216	13.0	93.5	0.878	0.253	0.19	0.19	0.139	123.2	92.5	92.5	67.7

83	BDP262	BDP262LED18-4S722DM33	1350	14.6	92.5	0.986	0.255	0.191	0.191	0.14	124.2	93.0	93.0	68.2
84	BDP262	BDP262LED20-4S722DM33	1500	16.4	91.5	1.108	0.258	0.194	0.194	0.142	125.6	94.5	94.5	69.1
85	BDP262	BDP262LED22-4S722DM33	1650	18.0	91.7	1.216	0.258	0.194	0.194	0.142	125.6	94.5	94.5	69.1
86	BDP262	BDP262LED24-4S722DM33	1800	19.8	90.9	1.338	0.26	0.195	0.195	0.143	126.6	94.9	94.9	69.6
87	BDP262	BDP262LED27-4S722DM33	2025	22.5	90.0	1.52	0.263	0.197	0.197	0.145	128.1	95.9	95.9	70.6
88	BDP262	BDP262LED30-4S722DM33	2250	25.5	88.2	1.723	0.269	0.202	0.202	0.148	131.0	98.4	98.4	72.1
89	BDP262	BDP262LED35-4S722DM33	2590	27.5	94.2	1.858	0.251	0.188	0.188	0.138	122.2	91.5	91.5	67.2
90	BDP262	BDP262LED39-4S722DM33	2886	31.0	93.1	2.095	0.253	0.19	0.19	0.139	123.2	92.5	92.5	67.7
91	BDP262	BDP262LED45-4S722DM33	3330	36.5	91.2	2.466	0.259	0.194	0.194	0.142	126.1	94.5	94.5	69.1
92	BDP262	BDP262LED50-4S722DM33	3700	37.0	100.0	2.5	0.237	0.178	0.178	0.13	115.4	86.7	86.7	63.3
93	BDP262	BDP262LED55-4S722DM33	3996	41.0	97.5	2.77	0.244	0.183	0.183	0.134	118.8	89.1	89.1	65.2
94	BDP262	BDP262LED59-4S722DM33	4440	44.0	100.9	2.973	0.235	0.176	0.176	0.129	114.4	85.7	85.7	62.8
95	BDP262	BDP262LED64-4S722DM33	4672	48.0	97.3	3.243	0.243	0.182	0.182	0.134	118.3	88.6	88.6	65.2
96	BDP262	BDP262LED69-4S722DM33	5110	52.0	98.3	3.514	0.239	0.179	0.179	0.131	116.4	87.2	87.2	63.8

97	BDP262	BDP262LED74-4S722DM33	5402	56.0	96.5	3.784	0.246	0.184	0.184	0.135	119.8	89.6	89.6	65.7
98	BDP262	BDP262LED8-4S840DM33	608	6.4	95.0	0.432	0.249	0.187	0.187	0.137	121.2	91.1	91.1	66.7
99	BDP262	BDP262LED10-4S840DM33	760	7.6	100.0	0.514	0.237	0.178	0.178	0.13	115.4	86.7	86.7	63.3
100	BDP262	BDP262LED12-4S840DM33	912	8.8	103.6	0.595	0.228	0.171	0.171	0.125	111.0	83.3	83.3	60.9