

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	4631	60.28
Copper	16.41	0.21
Other Plastics	2553.06	33.23
Paint	159	2.07
PCB Alu	27.9	0.36
PCB Copper	37.88	0.49
PCB Iron	32.51	0.42
PCB Non-ferrous metal	0.14	0
PCB Support	130.87	1.7
PCB Tin	3.54	0.05
Stainless Steel	2	0.03
Steel	87.94	1.14

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 country energy 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	1.08E+01	2.33E-01	5.06E-01	1.15E+01	3.27E+00	1.68E+00	ND	ND	ND	ND	ND	4.06E-02	ND	0.00E+00	2.88E-02	5.13E-01	2.80E-01	-9.88E-01

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) x 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 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 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	BDP268	BDP268LED8-4S740DW50	648	5.6	115.7	0.196	0.196	0.147	0.147	0.108	184.2	138.2	138.2	101.3
2	BDP268	BDP268LED10-4S740DW50	810	6.8	119.1	0.239	0.239	0.179	0.179	0.131	223.7	167.8	167.8	123.0
3	BDP268	BDP268LED12-4S740DW50	972	7.7	126.2	0.270	0.270	0.203	0.203	0.149	253.3	190.0	190.0	139.3
4	BDP268	BDP268LED14-4S740DW50	1134	8.9	127.4	0.312	0.312	0.234	0.234	0.172	292.8	219.6	219.6	161.0
5	BDP268	BDP268LED16-4S740DW50	1296	10.0	129.6	0.351	0.351	0.263	0.263	0.193	329.0	246.8	246.8	181.0
6	BDP268	BDP268LED18-4S740DW50	1458	11.2	130.2	0.393	0.393	0.295	0.295	0.216	368.5	276.4	276.4	202.7
7	BDP268	BDP268LED20-4S740DW50	1620	12.4	130.6	0.435	0.435	0.326	0.326	0.239	408.0	306.0	306.0	224.4
8	BDP268	BDP268LED22-4S740DW50	1760	13.6	129.4	0.477	0.477	0.358	0.358	0.262	447.4	335.6	335.6	246.1
9	BDP268	BDP268LED24-4S740DW50	1920	15.0	128.0	0.526	0.526	0.395	0.395	0.289	493.5	370.1	370.1	271.4
10	BDP268	BDP268LED27-4S740DW50	2160	17.0	127.1	0.596	0.596	0.447	0.447	0.328	559.3	419.5	419.5	307.6
11	BDP268	BDP268LED30-4S740DW50	2400	19.0	126.3	0.667	0.667	0.500	0.500	0.367	625.1	468.8	468.8	343.8
12	BDP268	BDP268LED34-4S740DW50	2720	20.0	136.0	0.702	0.702	0.526	0.526	0.386	658.0	493.5	493.5	361.9
13	BDP268	BDP268LED35-4S740DW50	2800	20.5	136.6	0.719	0.719	0.539	0.539	0.396	674.5	505.8	505.8	370.9
14	BDP268	BDP268LED39-4S740DW50	3120	23.0	135.7	0.807	0.807	0.605	0.605	0.444	756.7	567.5	567.5	416.2
15	BDP268	BDP268LED40-4S740DW50	3200	23.5	136.2	0.825	0.825	0.618	0.618	0.454	773.2	579.9	579.9	425.2
16	BDP268	BDP268LED44-4S740DW50	3520	26.0	135.4	0.912	0.912	0.684	0.684	0.502	855.4	641.6	641.6	470.5

17	BDP268	BDP268LED45-4S740DW50	3600	27.0	133.3	0.947	0.947	0.711	0.711	0.521	888.3	666.2	666.2	488.6
18	BDP268	BDP268LED50-4S740DW50	4000	28.5	140.4	1.000	1.000	0.750	0.750	0.550	937.7	703.2	703.2	515.7
19	BDP268	BDP268LED55-4S740DW50	4480	31.5	142.2	1.105	1.105	0.829	0.829	0.608	1036.4	777.3	777.3	570.0
20	BDP268	BDP268LED59-4S740DW50	4800	33.5	143.3	1.175	1.175	0.882	0.882	0.646	1102.2	826.6	826.6	606.2
21	BDP268	BDP268LED64-4S740DW50	5056	37.0	136.6	1.298	1.298	0.974	0.974	0.714	1217.3	913.0	913.0	669.5
22	BDP268	BDP268LED69-4S740DW50	5530	40.0	138.3	1.404	1.404	1.053	1.053	0.772	1316.0	987.0	987.0	723.8
23	BDP268	BDP268LED74-4S740DW50	5846	43.0	136.0	1.509	1.509	1.132	1.132	0.830	1414.7	1061.0	1061.0	778.1
24	BDP268	BDP268LED79-4S740DW50	6162	44.5	138.5	1.561	1.561	1.171	1.171	0.859	1464.1	1098.0	1098.0	805.2
25	BDP268	BDP268LED84-4S740DW50	6636	47.5	139.7	1.667	1.667	1.250	1.250	0.917	1562.8	1172.1	1172.1	859.5
26	BDP268	BDP268LED90-4S740DW50	7110	51.0	139.4	1.789	1.789	1.342	1.342	0.984	1677.9	1258.4	1258.4	922.8
27	BDP268	BDP268LED94-4S740DW50	7426	54.0	137.5	1.895	1.895	1.421	1.421	1.042	1776.6	1332.5	1332.5	977.1
28	BDP268	BDP268LED109-4S740DW50	8580	63.0	136.2	2.211	2.211	1.658	1.658	1.216	2072.7	1554.5	1554.5	1140.0
29	BDP268	BDP268LED120-4S740DW50	9360	71.0	131.8	2.491	2.491	1.868	1.868	1.370	2335.9	1751.9	1751.9	1284.7
30	BDP268	BDP268LED130-4S740DW50	10010	77.0	130.0	2.702	2.702	2.026	2.026	1.486	2533.3	1900.0	1900.0	1393.3
31	BDP268	BDP268LED8-4S730DW50	648	5.9	109.8	0.207	0.207	0.155	0.155	0.114	194.1	145.6	145.6	106.8
32	BDP268	BDP268LED10-4S730DW50	810	7.1	114.1	0.249	0.249	0.187	0.187	0.137	233.6	175.2	175.2	128.5
33	BDP268	BDP268LED12-4S730DW50	972	8.2	118.5	0.288	0.288	0.216	0.216	0.158	269.8	202.3	202.3	148.4
34	BDP268	BDP268LED14-4S730DW50	1134	9.4	120.6	0.330	0.330	0.247	0.247	0.181	309.3	231.9	231.9	170.1
35	BDP268	BDP268LED16-4S730DW50	1296	10.6	122.3	0.372	0.372	0.279	0.279	0.205	348.7	261.6	261.6	191.8
36	BDP268	BDP268LED18-4S730DW50	1458	11.8	123.6	0.414	0.414	0.311	0.311	0.228	388.2	291.2	291.2	213.5
37	BDP268	BDP268LED20-4S730DW50	1600	13.2	121.2	0.463	0.463	0.347	0.347	0.255	434.3	325.7	325.7	238.9
38	BDP268	BDP268LED22-4S730DW50	1760	14.6	120.5	0.512	0.512	0.384	0.384	0.282	480.3	360.3	360.3	264.2
39	BDP268	BDP268LED24-4S730DW50	1920	16.0	120.0	0.561	0.561	0.421	0.421	0.309	526.4	394.8	394.8	289.5
40	BDP268	BDP268LED27-4S730DW50	2160	18.0	120.0	0.632	0.632	0.474	0.474	0.347	592.2	444.2	444.2	325.7
41	BDP268	BDP268LED30-4S730DW50	2400	20.5	117.1	0.719	0.719	0.539	0.539	0.396	674.5	505.8	505.8	370.9
42	BDP268	BDP268LED34-4S730DW50	2720	21.0	129.5	0.737	0.737	0.553	0.553	0.405	690.9	518.2	518.2	380.0
43	BDP268	BDP268LED35-4S730DW50	2800	22.0	127.3	0.772	0.772	0.579	0.579	0.425	723.8	542.9	542.9	398.1
44	BDP268	BDP268LED39-4S730DW50	3120	24.5	127.3	0.860	0.860	0.645	0.645	0.473	806.1	604.5	604.5	443.3

45	BDP268	BDP268LED40-4S730DW50	3200	25.0	128.0	0.877	0.877	0.658	0.658	0.482	822.5	616.9	616.9	452.4
46	BDP268	BDP268LED44-4S730DW50	3520	28.0	125.7	0.982	0.982	0.737	0.737	0.540	921.2	690.9	690.9	506.7
47	BDP268	BDP268LED45-4S730DW50	3600	28.5	126.3	1.000	1.000	0.750	0.750	0.550	937.7	703.2	703.2	515.7
48	BDP268	BDP268LED50-4S730DW50	4000	30.0	133.3	1.053	1.053	0.789	0.789	0.579	987.0	740.3	740.3	542.9
49	BDP268	BDP268LED55-4S730DW50	4480	33.5	133.7	1.175	1.175	0.882	0.882	0.646	1102.2	826.6	826.6	606.2
50	BDP268	BDP268LED59-4S730DW50	4800	36.0	133.3	1.263	1.263	0.947	0.947	0.695	1184.4	888.3	888.3	651.4
51	BDP268	BDP268LED64-4S730DW50	5056	39.0	129.6	1.368	1.368	1.026	1.026	0.753	1283.1	962.3	962.3	705.7
52	BDP268	BDP268LED69-4S730DW50	5530	42.5	130.1	1.491	1.491	1.118	1.118	0.820	1398.3	1048.7	1048.7	769.0
53	BDP268	BDP268LED74-4S730DW50	5846	46.0	127.1	1.614	1.614	1.211	1.211	0.888	1513.4	1135.1	1135.1	832.4
54	BDP268	BDP268LED79-4S730DW50	6320	47.5	133.1	1.667	1.667	1.250	1.250	0.917	1562.8	1172.1	1172.1	859.5
55	BDP268	BDP268LED84-4S730DW50	6636	51.0	130.1	1.789	1.789	1.342	1.342	0.984	1677.9	1258.4	1258.4	922.8
56	BDP268	BDP268LED90-4S730DW50	7110	55.0	129.3	1.930	1.930	1.447	1.447	1.061	1809.5	1357.1	1357.1	995.2
57	BDP268	BDP268LED94-4S730DW50	7426	57.0	130.3	2.000	2.000	1.500	1.500	1.100	1875.3	1406.5	1406.5	1031.4
58	BDP268	BDP268LED109-4S730DW50	8580	68.0	126.2	2.386	2.386	1.789	1.789	1.312	2237.2	1677.9	1677.9	1230.5
59	BDP268	BDP268LED120-4S730DW50	9240	76.0	121.6	2.667	2.667	2.000	2.000	1.467	2500.4	1875.3	1875.3	1375.2
60	BDP268	BDP268LED8-4S727DW50	648	6.5	99.7	0.228	0.228	0.171	0.171	0.125	213.9	160.4	160.4	117.6
61	BDP268	BDP268LED10-4S727DW50	810	7.9	102.5	0.277	0.277	0.208	0.208	0.152	259.9	194.9	194.9	143.0
62	BDP268	BDP268LED12-4S727DW50	972	9.1	106.8	0.319	0.319	0.239	0.239	0.176	299.4	224.5	224.5	164.7
63	BDP268	BDP268LED14-4S727DW50	1134	10.4	109.0	0.365	0.365	0.274	0.274	0.201	342.2	256.6	256.6	188.2
64	BDP268	BDP268LED16-4S727DW50	1296	11.8	109.8	0.414	0.414	0.311	0.311	0.228	388.2	291.2	291.2	213.5
65	BDP268	BDP268LED18-4S727DW50	1440	13.2	109.1	0.463	0.463	0.347	0.347	0.255	434.3	325.7	325.7	238.9
66	BDP268	BDP268LED20-4S727DW50	1600	14.8	108.1	0.519	0.519	0.389	0.389	0.286	486.9	365.2	365.2	267.8
67	BDP268	BDP268LED22-4S727DW50	1760	16.4	107.3	0.575	0.575	0.432	0.432	0.316	539.6	404.7	404.7	296.8
68	BDP268	BDP268LED24-4S727DW50	1920	18.0	106.7	0.632	0.632	0.474	0.474	0.347	592.2	444.2	444.2	325.7
69	BDP268	BDP268LED27-4S727DW50	2160	20.5	105.4	0.719	0.719	0.539	0.539	0.396	674.5	505.8	505.8	370.9
70	BDP268	BDP268LED30-4S727DW50	2400	21.0	114.3	0.737	0.737	0.553	0.553	0.405	690.9	518.2	518.2	380.0
71	BDP268	BDP268LED34-4S727DW50	2720	24.0	113.3	0.842	0.842	0.632	0.632	0.463	789.6	592.2	592.2	434.3
72	BDP268	BDP268LED35-4S727DW50	2800	24.5	114.3	0.860	0.860	0.645	0.645	0.473	806.1	604.5	604.5	443.3

73	BDP268	BDP268LED39-4S727DW50	3120	27.5	113.5	0.965	0.965	0.724	0.724	0.531	904.8	678.6	678.6	497.6
74	BDP268	BDP268LED40-4S727DW50	3200	28.5	112.3	1.000	1.000	0.750	0.750	0.550	937.7	703.2	703.2	515.7
75	BDP268	BDP268LED44-4S727DW50	3476	31.5	110.3	1.105	1.105	0.829	0.829	0.608	1036.4	777.3	777.3	570.0
76	BDP268	BDP268LED45-4S727DW50	3555	32.0	111.1	1.123	1.123	0.842	0.842	0.618	1052.8	789.6	789.6	579.0
77	BDP268	BDP268LED50-4S727DW50	4000	34.0	117.6	1.193	1.193	0.895	0.895	0.656	1118.6	839.0	839.0	615.2
78	BDP268	BDP268LED55-4S727DW50	4424	37.5	118.0	1.316	1.316	0.987	0.987	0.724	1233.8	925.3	925.3	678.6
79	BDP268	BDP268LED59-4S727DW50	4740	40.5	117.0	1.421	1.421	1.066	1.066	0.782	1332.5	999.3	999.3	732.8
80	BDP268	BDP268LED64-4S727DW50	5056	44.5	113.6	1.561	1.561	1.171	1.171	0.859	1464.1	1098.0	1098.0	805.2
81	BDP268	BDP268LED69-4S727DW50	5460	48.0	113.8	1.684	1.684	1.263	1.263	0.926	1579.2	1184.4	1184.4	868.6
82	BDP268	BDP268LED74-4S727DW50	5772	52.0	111.0	1.825	1.825	1.368	1.368	1.004	1710.8	1283.1	1283.1	940.9
83	BDP268	BDP268LED79-4S727DW50	6320	54.0	117.0	1.895	1.895	1.421	1.421	1.042	1776.6	1332.5	1332.5	977.1
84	BDP268	BDP268LED84-4S727DW50	6636	57.0	116.4	2.000	2.000	1.500	1.500	1.100	1875.3	1406.5	1406.5	1031.4
85	BDP268	BDP268LED90-4S727DW50	7020	62.0	113.2	2.175	2.175	1.632	1.632	1.196	2039.8	1529.9	1529.9	1121.9
86	BDP268	BDP268LED94-4S727DW50	7332	65.0	112.8	2.281	2.281	1.711	1.711	1.254	2138.5	1603.9	1603.9	1176.2
87	BDP268	BDP268LED109-4S727DW50	8470	77.0	110.0	2.702	2.702	2.026	2.026	1.486	2533.3	1900.0	1900.0	1393.3
88	BDP268	BDP268LED6-4S722DW50	486	5.6	86.8	0.196	0.196	0.147	0.147	0.108	184.2	138.2	138.2	101.3
89	BDP268	BDP268LED8-4S722DW50	648	7.1	91.3	0.249	0.249	0.187	0.187	0.137	233.6	175.2	175.2	128.5
90	BDP268	BDP268LED10-4S722DW50	800	8.8	90.9	0.309	0.309	0.232	0.232	0.170	289.5	217.1	217.1	159.2
91	BDP268	BDP268LED12-4S722DW50	972	10.0	97.2	0.351	0.351	0.263	0.263	0.193	329.0	246.8	246.8	181.0
92	BDP268	BDP268LED14-4S722DW50	1134	11.6	97.8	0.407	0.407	0.305	0.305	0.224	381.6	286.2	286.2	209.9
93	BDP268	BDP268LED16-4S722DW50	1280	13.2	97.0	0.463	0.463	0.347	0.347	0.255	434.3	325.7	325.7	238.9
94	BDP268	BDP268LED18-4S722DW50	1440	14.8	97.3	0.519	0.519	0.389	0.389	0.286	486.9	365.2	365.2	267.8
95	BDP268	BDP268LED20-4S722DW50	1600	16.6	96.4	0.582	0.582	0.437	0.437	0.320	546.1	409.6	409.6	300.4
96	BDP268	BDP268LED22-4S722DW50	1760	18.4	95.7	0.646	0.646	0.484	0.484	0.355	605.4	454.0	454.0	332.9
97	BDP268	BDP268LED24-4S722DW50	1920	20.5	93.7	0.719	0.719	0.539	0.539	0.396	674.5	505.8	505.8	370.9
98	BDP268	BDP268LED27-4S722DW50	2160	21.0	102.9	0.737	0.737	0.553	0.553	0.405	690.9	518.2	518.2	380.0
99	BDP268	BDP268LED30-4S722DW50	2400	23.5	102.1	0.825	0.825	0.618	0.618	0.454	773.2	579.9	579.9	425.2
100	BDP268	BDP268LED34-4S722DW50	2720	27.0	100.7	0.947	0.947	0.711	0.711	0.521	888.3	666.2	666.2	488.6

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	BDP268	BDP268LED8-4S740DW50	648	5.6	115.7	0.196	0.106	0.080	0.080	0.058	99.5	74.6	74.6	54.7
2	BDP268	BDP268LED10-4S740DW50	810	6.8	119.1	0.239	0.103	0.077	0.077	0.057	96.7	72.5	72.5	53.2
3	BDP268	BDP268LED12-4S740DW50	972	7.7	126.2	0.270	0.097	0.073	0.073	0.054	91.2	68.4	68.4	50.2
4	BDP268	BDP268LED14-4S740DW50	1134	8.9	127.4	0.312	0.096	0.072	0.072	0.053	90.4	67.8	67.8	49.7
5	BDP268	BDP268LED16-4S740DW50	1296	10.0	129.6	0.351	0.095	0.071	0.071	0.052	88.9	66.6	66.6	48.9
6	BDP268	BDP268LED18-4S740DW50	1458	11.2	130.2	0.393	0.094	0.071	0.071	0.052	88.5	66.3	66.3	48.7
7	BDP268	BDP268LED20-4S740DW50	1620	12.4	130.6	0.435	0.094	0.071	0.071	0.052	88.1	66.1	66.1	48.5
8	BDP268	BDP268LED22-4S740DW50	1760	13.6	129.4	0.477	0.095	0.071	0.071	0.052	89.0	66.7	66.7	48.9
9	BDP268	BDP268LED24-4S740DW50	1920	15.0	128.0	0.526	0.096	0.072	0.072	0.053	90.0	67.5	67.5	49.5
10	BDP268	BDP268LED27-4S740DW50	2160	17.0	127.1	0.596	0.097	0.072	0.072	0.053	90.6	68.0	68.0	49.8
11	BDP268	BDP268LED30-4S740DW50	2400	19.0	126.3	0.667	0.097	0.073	0.073	0.053	91.2	68.4	68.4	50.1
12	BDP268	BDP268LED34-4S740DW50	2720	20.0	136.0	0.702	0.090	0.068	0.068	0.050	84.7	63.5	63.5	46.6
13	BDP268	BDP268LED35-4S740DW50	2800	20.5	136.6	0.719	0.090	0.067	0.067	0.049	84.3	63.2	63.2	46.4
14	BDP268	BDP268LED39-4S740DW50	3120	23.0	135.7	0.807	0.091	0.068	0.068	0.050	84.9	63.7	63.7	46.7
15	BDP268	BDP268LED40-4S740DW50	3200	23.5	136.2	0.825	0.090	0.068	0.068	0.050	84.6	63.4	63.4	46.5
16	BDP268	BDP268LED44-4S740DW50	3520	26.0	135.4	0.912	0.091	0.068	0.068	0.050	85.1	63.8	63.8	46.8
17	BDP268	BDP268LED45-4S740DW50	3600	27.0	133.3	0.947	0.092	0.069	0.069	0.051	86.4	64.8	64.8	47.5
18	BDP268	BDP268LED50-4S740DW50	4000	28.5	140.4	1.000	0.088	0.066	0.066	0.048	82.0	61.5	61.5	45.1
19	BDP268	BDP268LED55-4S740DW50	4480	31.5	142.2	1.105	0.086	0.065	0.065	0.047	81.0	60.7	60.7	44.5
20	BDP268	BDP268LED59-4S740DW50	4800	33.5	143.3	1.175	0.086	0.064	0.064	0.047	80.4	60.3	60.3	44.2
21	BDP268	BDP268LED64-4S740DW50	5056	37.0	136.6	1.298	0.090	0.067	0.067	0.049	84.3	63.2	63.2	46.3
22	BDP268	BDP268LED69-4S740DW50	5530	40.0	138.3	1.404	0.089	0.067	0.067	0.049	83.3	62.5	62.5	45.8
23	BDP268	BDP268LED74-4S740DW50	5846	43.0	136.0	1.509	0.090	0.068	0.068	0.050	84.7	63.5	63.5	46.6
24	BDP268	BDP268LED79-4S740DW50	6162	44.5	138.5	1.561	0.089	0.067	0.067	0.049	83.2	62.4	62.4	45.7

25	BDP268	BDP268LED84-4S740DW50	6636	47.5	139.7	1.667	0.088	0.066	0.066	0.048	82.4	61.8	61.8	45.3
26	BDP268	BDP268LED90-4S740DW50	7110	51.0	139.4	1.789	0.088	0.066	0.066	0.048	82.6	61.9	61.9	45.4
27	BDP268	BDP268LED94-4S740DW50	7426	54.0	137.5	1.895	0.089	0.067	0.067	0.049	83.7	62.8	62.8	46.1
28	BDP268	BDP268LED109-4S740DW50	8580	63.0	136.2	2.211	0.090	0.068	0.068	0.050	84.6	63.4	63.4	46.5
29	BDP268	BDP268LED120-4S740DW50	9360	71.0	131.8	2.491	0.093	0.070	0.070	0.051	87.3	65.5	65.5	48.0
30	BDP268	BDP268LED130-4S740DW50	10010	77.0	130.0	2.702	0.094	0.071	0.071	0.052	88.6	66.4	66.4	48.7
31	BDP268	BDP268LED8-4S730DW50	648	5.9	109.8	0.207	0.112	0.084	0.084	0.061	104.8	78.6	78.6	57.7
32	BDP268	BDP268LED10-4S730DW50	810	7.1	114.1	0.249	0.108	0.081	0.081	0.059	100.9	75.7	75.7	55.5
33	BDP268	BDP268LED12-4S730DW50	972	8.2	118.5	0.288	0.104	0.078	0.078	0.057	97.1	72.9	72.9	53.4
34	BDP268	BDP268LED14-4S730DW50	1134	9.4	120.6	0.330	0.102	0.076	0.076	0.056	95.5	71.6	71.6	52.5
35	BDP268	BDP268LED16-4S730DW50	1296	10.6	122.3	0.372	0.100	0.075	0.075	0.055	94.2	70.6	70.6	51.8
36	BDP268	BDP268LED18-4S730DW50	1458	11.8	123.6	0.414	0.099	0.075	0.075	0.055	93.2	69.9	69.9	51.3
37	BDP268	BDP268LED20-4S730DW50	1600	13.2	121.2	0.463	0.101	0.076	0.076	0.056	95.0	71.2	71.2	52.2
38	BDP268	BDP268LED22-4S730DW50	1760	14.6	120.5	0.512	0.102	0.076	0.076	0.056	95.5	71.6	71.6	52.5
39	BDP268	BDP268LED24-4S730DW50	1920	16.0	120.0	0.561	0.102	0.077	0.077	0.056	96.0	72.0	72.0	52.8
40	BDP268	BDP268LED27-4S730DW50	2160	18.0	120.0	0.632	0.102	0.077	0.077	0.056	96.0	72.0	72.0	52.8
41	BDP268	BDP268LED30-4S730DW50	2400	20.5	117.1	0.719	0.105	0.079	0.079	0.058	98.4	73.8	73.8	54.1
42	BDP268	BDP268LED34-4S730DW50	2720	21.0	129.5	0.737	0.095	0.071	0.071	0.052	88.9	66.7	66.7	48.9
43	BDP268	BDP268LED35-4S730DW50	2800	22.0	127.3	0.772	0.096	0.072	0.072	0.053	90.5	67.9	67.9	49.8
44	BDP268	BDP268LED39-4S730DW50	3120	24.5	127.3	0.860	0.096	0.072	0.072	0.053	90.4	67.8	67.8	49.7
45	BDP268	BDP268LED40-4S730DW50	3200	25.0	128.0	0.877	0.096	0.072	0.072	0.053	90.0	67.5	67.5	49.5
46	BDP268	BDP268LED44-4S730DW50	3520	28.0	125.7	0.982	0.098	0.073	0.073	0.054	91.6	68.7	68.7	50.4
47	BDP268	BDP268LED45-4S730DW50	3600	28.5	126.3	1.000	0.097	0.073	0.073	0.053	91.2	68.4	68.4	50.1
48	BDP268	BDP268LED50-4S730DW50	4000	30.0	133.3	1.053	0.092	0.069	0.069	0.051	86.4	64.8	64.8	47.5
49	BDP268	BDP268LED55-4S730DW50	4480	33.5	133.7	1.175	0.092	0.069	0.069	0.051	86.1	64.6	64.6	47.4
50	BDP268	BDP268LED59-4S730DW50	4800	36.0	133.3	1.263	0.092	0.069	0.069	0.051	86.4	64.8	64.8	47.5
51	BDP268	BDP268LED64-4S730DW50	5056	39.0	129.6	1.368	0.095	0.071	0.071	0.052	88.8	66.6	66.6	48.9
52	BDP268	BDP268LED69-4S730DW50	5530	42.5	130.1	1.491	0.094	0.071	0.071	0.052	88.5	66.4	66.4	48.7

53	BDP268	BDP268LED74-4S730DW50	5846	46.0	127.1	1.614	0.097	0.072	0.072	0.053	90.6	68.0	68.0	49.8
54	BDP268	BDP268LED79-4S730DW50	6320	47.5	133.1	1.667	0.092	0.069	0.069	0.051	86.5	64.9	64.9	47.6
55	BDP268	BDP268LED84-4S730DW50	6636	51.0	130.1	1.789	0.094	0.071	0.071	0.052	88.5	66.4	66.4	48.7
56	BDP268	BDP268LED90-4S730DW50	7110	55.0	129.3	1.930	0.095	0.071	0.071	0.052	89.1	66.8	66.8	49.0
57	BDP268	BDP268LED94-4S730DW50	7426	57.0	130.3	2.000	0.094	0.071	0.071	0.052	88.4	66.3	66.3	48.6
58	BDP268	BDP268LED109-4S730DW50	8580	68.0	126.2	2.386	0.097	0.073	0.073	0.054	91.3	68.4	68.4	50.2
59	BDP268	BDP268LED120-4S730DW50	9240	76.0	121.6	2.667	0.101	0.076	0.076	0.056	94.7	71.0	71.0	52.1
60	BDP268	BDP268LED8-4S727DW50	648	6.5	99.7	0.228	0.123	0.092	0.092	0.068	115.5	86.6	86.6	63.5
61	BDP268	BDP268LED10-4S727DW50	810	7.9	102.5	0.277	0.120	0.090	0.090	0.066	112.3	84.2	84.2	61.8
62	BDP268	BDP268LED12-4S727DW50	972	9.1	106.8	0.319	0.115	0.086	0.086	0.063	107.8	80.9	80.9	59.3
63	BDP268	BDP268LED14-4S727DW50	1134	10.4	109.0	0.365	0.113	0.084	0.084	0.062	105.6	79.2	79.2	58.1
64	BDP268	BDP268LED16-4S727DW50	1296	11.8	109.8	0.414	0.112	0.084	0.084	0.061	104.8	78.6	78.6	57.7
65	BDP268	BDP268LED18-4S727DW50	1440	13.2	109.1	0.463	0.113	0.084	0.084	0.062	105.6	79.2	79.2	58.1
66	BDP268	BDP268LED20-4S727DW50	1600	14.8	108.1	0.519	0.114	0.085	0.085	0.062	106.5	79.9	79.9	58.6
67	BDP268	BDP268LED22-4S727DW50	1760	16.4	107.3	0.575	0.114	0.086	0.086	0.063	107.3	80.5	80.5	59.0
68	BDP268	BDP268LED24-4S727DW50	1920	18.0	106.7	0.632	0.115	0.086	0.086	0.063	108.0	81.0	81.0	59.4
69	BDP268	BDP268LED27-4S727DW50	2160	20.5	105.4	0.719	0.117	0.087	0.087	0.064	109.3	82.0	82.0	60.1
70	BDP268	BDP268LED30-4S727DW50	2400	21.0	114.3	0.737	0.107	0.081	0.081	0.059	100.8	75.6	75.6	55.4
71	BDP268	BDP268LED34-4S727DW50	2720	24.0	113.3	0.842	0.108	0.081	0.081	0.060	101.6	76.2	76.2	55.9
72	BDP268	BDP268LED35-4S727DW50	2800	24.5	114.3	0.860	0.107	0.081	0.081	0.059	100.8	75.6	75.6	55.4
73	BDP268	BDP268LED39-4S727DW50	3120	27.5	113.5	0.965	0.108	0.081	0.081	0.060	101.5	76.1	76.1	55.8
74	BDP268	BDP268LED40-4S727DW50	3200	28.5	112.3	1.000	0.109	0.082	0.082	0.060	102.6	76.9	76.9	56.4
75	BDP268	BDP268LED44-4S727DW50	3476	31.5	110.3	1.105	0.111	0.083	0.083	0.061	104.4	78.3	78.3	57.4
76	BDP268	BDP268LED45-4S727DW50	3555	32.0	111.1	1.123	0.111	0.083	0.083	0.061	103.7	77.7	77.7	57.0
77	BDP268	BDP268LED50-4S727DW50	4000	34.0	117.6	1.193	0.104	0.078	0.078	0.057	97.9	73.4	73.4	53.8
78	BDP268	BDP268LED55-4S727DW50	4424	37.5	118.0	1.316	0.104	0.078	0.078	0.057	97.6	73.2	73.2	53.7
79	BDP268	BDP268LED59-4S727DW50	4740	40.5	117.0	1.421	0.105	0.079	0.079	0.058	98.4	73.8	73.8	54.1
80	BDP268	BDP268LED64-4S727DW50	5056	44.5	113.6	1.561	0.108	0.081	0.081	0.059	101.3	76.0	76.0	55.7

81	BDP268	BDP268LED69-4S727DW50	5460	48.0	113.8	1.684	0.108	0.081	0.081	0.059	101.2	75.9	75.9	55.7
82	BDP268	BDP268LED74-4S727DW50	5772	52.0	111.0	1.825	0.111	0.083	0.083	0.061	103.7	77.8	77.8	57.1
83	BDP268	BDP268LED79-4S727DW50	6320	54.0	117.0	1.895	0.105	0.079	0.079	0.058	98.4	73.8	73.8	54.1
84	BDP268	BDP268LED84-4S727DW50	6636	57.0	116.4	2.000	0.105	0.079	0.079	0.058	98.9	74.2	74.2	54.4
85	BDP268	BDP268LED90-4S727DW50	7020	62.0	113.2	2.175	0.108	0.081	0.081	0.060	101.7	76.3	76.3	55.9
86	BDP268	BDP268LED94-4S727DW50	7332	65.0	112.8	2.281	0.109	0.082	0.082	0.060	102.1	76.6	76.6	56.1
87	BDP268	BDP268LED109-4S727DW50	8470	77.0	110.0	2.702	0.112	0.084	0.084	0.061	104.7	78.5	78.5	57.6
88	BDP268	BDP268LED6-4S722DW50	486	5.6	86.8	0.196	0.142	0.106	0.106	0.078	132.7	99.5	99.5	73.0
89	BDP268	BDP268LED8-4S722DW50	648	7.1	91.3	0.249	0.135	0.101	0.101	0.074	126.2	94.6	94.6	69.4
90	BDP268	BDP268LED10-4S722DW50	800	8.8	90.9	0.309	0.135	0.101	0.101	0.074	126.7	95.0	95.0	69.7
91	BDP268	BDP268LED12-4S722DW50	972	10.0	97.2	0.351	0.126	0.095	0.095	0.069	118.5	88.9	88.9	65.2
92	BDP268	BDP268LED14-4S722DW50	1134	11.6	97.8	0.407	0.126	0.094	0.094	0.069	117.8	88.3	88.3	64.8
93	BDP268	BDP268LED16-4S722DW50	1280	13.2	97.0	0.463	0.127	0.095	0.095	0.070	118.7	89.1	89.1	65.3
94	BDP268	BDP268LED18-4S722DW50	1440	14.8	97.3	0.519	0.126	0.095	0.095	0.069	118.3	88.8	88.8	65.1
95	BDP268	BDP268LED20-4S722DW50	1600	16.6	96.4	0.582	0.127	0.096	0.096	0.070	119.5	89.6	89.6	65.7
96	BDP268	BDP268LED22-4S722DW50	1760	18.4	95.7	0.646	0.128	0.096	0.096	0.071	120.4	90.3	90.3	66.2
97	BDP268	BDP268LED24-4S722DW50	1920	20.5	93.7	0.719	0.131	0.098	0.098	0.072	122.9	92.2	92.2	67.6
98	BDP268	BDP268LED27-4S722DW50	2160	21.0	102.9	0.737	0.119	0.090	0.090	0.066	112.0	84.0	84.0	61.6
99	BDP268	BDP268LED30-4S722DW50	2400	23.5	102.1	0.825	0.120	0.090	0.090	0.066	112.8	84.6	84.6	62.0
100	BDP268	BDP268LED34-4S722DW50	2720	27.0	100.7	0.947	0.122	0.091	0.091	0.067	114.3	85.7	85.7	62.9