



# Consumer LED Mains Voltage range

Recommended **dimmer** compatibility list for **Mains Voltage** Lamps



**KEY**

x-y	Excellent dimming with X-Y lamps, however external factors can negatively influence the deep dimming performance
x-y	Dimming performance: These dimmers require more than 5 lamps as minimum load
	Unexpected performance behavior, not in line with good dimming perception
N.A.	Dimmer lamp combination not applicable
t.b.d.	Dimmer lamp combination not tested

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults

Brand	Type	Type	Load
Berker  INSTA	286710	[RC ]	20 – 360 W - Turn
Berker  INSTA	283010	[R ]	60 – 400 W - Turn
Bticino	L4407	[ ]	60 – 250 W
Busch Jaeger  ABB	2200 U - 503	[R ]	60 – 400 W - Turn
Busch Jaeger  ABB	2247 U	[R ]	60 – 400 W - Turn
Busch Jaeger  ABB	2250 U	[RL ]	20 – 500 W - Turn
Busch Jaeger  ABB	6513 U - 102	[R ]	40 – 420 W - Turn
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED - Turn
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)
ELKO  Schneider	SBD200LED (CCTELI0501)	[LED/RC]	4 – 200 W(RC) 4 – 400 W(RL)
ELKO  Schneider	SBD315RC (315 GLE )	[RC ]	315 W
ELKO  Schneider	SBD420RCRL (CCTELI3011)	[RLC ]	315 W
Eltako	EVD6INPN-UC		400 W 3-wire Push Module
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W(RC) 4 – 400 W(RL)
GIRA	1176-00/01	[RLC ]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)
Hager	EVN 011	[RC ]	
Hager	EVN 012	[RC ]	300 W
Hager	EVN 004	[RL ]	
Jung	225 TDE	[RC ]	20 – 525 W - Turn
Jung	1271LEDE	[LED]	3 – 100 W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24 W
Klik aan Klik uit	ACM 300		300 W - 3-wire Push LED Dimmer
Legrand	774161	[RL ]	40 – 400 W - Turn
Legrand	78401	[RLC ]	40 – 500 W
Legrand	67081	[RL ]	40 – 400 W - Turn
Legrand	67082	[RL ]	40 – 600 W - Turn
Legrand	67083	[RLC ]	3 – 400 W
Legrand	67084	[RLC ]	8 – 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC ]	8 – 300 VA - Push LED (3wire)
Legrand	L4402N	[R ]	60 – 500 W
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W(RC) 4 – 400 W(RL)
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC ]	315 W
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC ]	20 – 420 VA
MK - Electric	K1535	[R ]	65 – 450 W - Turn
MK - Electric	K1501 WHILV	[R ]	60 – 500 W - Turn
MK - Electric	K4501 WHILV	[RLC ]	
MK - Electric	K4500 WHILV	[RLC ]	
NIKO	310-0280X	[LED]	2 – 100 VA
PEHA	431HAN	[RL ]	6 – 120W [LED] 6 – 60W
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)
Schneider	SBD315RC (SBD 315, SDD 315)	[RC ]	315 W
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC ]	315 W
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400 VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC ]	315 W
VADSBO	ED 350	[RC ]	50 – 350 W
VADSBO	DRS 315	[RC ]	50 – 315 W
VADSBO	DU 250	[RC ]	20 – 250 W
Varilight	HQ3W	[R ]	
Varilight	ICT401 M	[RC ]	
Vimar	20148	[RL ]	500 W
Vimar	20162	[RL ]	40 – 300 W
IKEA	E0902 - Dim	[R ]	25 – 150 W

Classic LED bulb								
A60 4.5-40 W Dimmable			ST64 7-60 W Dimmable			A60 7.5-60 W Dimmable		
NEW			NEW			NEW		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
t.b.d.	t.b.d.	t.b.d.	1-3	94%-3%		1	92%-3%	
t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
t.b.d.	t.b.d.	t.b.d.	1-3	97%-3%		1-3	93%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	94%-3%		1-3	92%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	96%-3%		1-3	93%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	95%-3%		1-3	93%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	91%-3%		1-3	88%-3%	
1-3	88%-3%		1-3	95%-3%		1-3	97%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	94%-6%		1-3	90%-4%	
t.b.d.	t.b.d.	t.b.d.	1-3	83%-3%		1-3	90%-3%	
t.b.d.	t.b.d.	t.b.d.	3	99%-3%		2-3	93%-3%	
1-3	99%-3%		1-3	99%-3%		1-3	99%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	94%-6%		1-3	90%-4%	
1-3	95%-13%		1-3	95%-11%		1-3	96%-13%	
t.b.d.	t.b.d.	t.b.d.	1-3	93%-3%		1-3	89%-3%	
1-3	99%-3%		1-3	96%-3%		1-3	99%-3%	
1-3	99%-4%		1-3	98%-3%		1-3	98%-4%	
1-3	98%-5%		1-3	98%-4%		1-3	99%-4%	
t.b.d.	t.b.d.	t.b.d.	1-3	93%-6%		1-3	90%-4%	
t.b.d.	t.b.d.	t.b.d.	1-3	95%-10%		1-3	90%-3%	
1-3	88%-3%		1-3	86%-3%		1-3	86%-11%	
1-3	91%-3%		1-3	80%-3%		1-3	93%-3%	
t.b.d.	t.b.d.	t.b.d.		N.A.	N.A.	2-3	93%-3%	
1-3	96%-3%		1-3	95%-3%		1-3	96%-3%	
t.b.d.	t.b.d.	t.b.d.		N.A.	N.A.		N.A.	N.A.
t.b.d.	t.b.d.	t.b.d.		N.A.	N.A.		N.A.	N.A.
1-3	88%-3%		1-2	87%-5%		1-3	87%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	95%-3%		1-3	93%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	98%-3%		1-3	95%-3%	
3	87%-4%		2-3	87%-5%		1-3	87%-5%	
t.b.d.	t.b.d.	t.b.d.	1-3	94%-6%		1-3	90%-4%	
t.b.d.	t.b.d.	t.b.d.	1-3	83%-3%		1-3	90%-3%	
t.b.d.	t.b.d.	t.b.d.	3	99%-3%		2-3	93%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	84%-3%		1-3	81%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	87%-3%		1-3	86%-3%	
2-3	88%-3%		1-3	91%-9%		1-3	88%-3%	
2-3	89%-3%		1-3	91%-9%		1-3	88%-3%	
1-3	98%-3%		1-3	97%-3%		1-3	97%-3%	
1-3	88%-3%		1-3	87%-3%		1-3	87%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	91%-3%		1-3	88%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	83%-3%		1-3	90%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	83%-3%		1-3	90%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	94%-6%		1-3	90%-4%	
t.b.d.	t.b.d.	t.b.d.	1-3	83%-3%		1-3	90%-3%	
1-3	93%-13%		1-3	91%-9%		1-3	93%-13%	
	N.A.	N.A.		N.A.	N.A.	1-3	95%-3%	
1-3	91%-3%	< 3	1-3	87%-3%		1-3	88%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	93%-3%		1-3	91%-3%	
1-3	82%-3%		1-3	87%-3%		1-3	87%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	95%-3%	<2	1-3	92%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	97%-3%	<2	1-3	91%-3%	
t.b.d.	t.b.d.	t.b.d.	1-3	97%-3%		1-3	93%-3%	

- Note :**
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
  - #2) Occupancy sensors can act like dimmers, therefore Philips recommends to use dimmable lamps in combination with it.
  - #3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.
  - #4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - #4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional light sources. (e.g. flickering where "active loads" can reduce your problems)
  - #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
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VADSBO	DRS 315	[RC ]	50 – 315 W
VADSBO	DU 250	[RC ]	20 – 250 W
Varilight	HQ3W	[R ]	
Varilight	ICT401 M	[RC ]	
Vimar	20148	[RL ]	500 W
Vimar	20162	[RL ]	40 – 300 W
IKEA	E0902 - Dim	[R ]	25 – 150 W

LED candle / LED lustre						Classic LED candle		
E14 / E27 4-25 W Dimmable WarmGlow			E14 / E27 6-40 W Dimmable WarmGlow			B35 / BA35 3-25 W / 5-40 W Dimmable		
NEW			NEW			NEW		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
2-18	96%-3%	t.b.d.	2-12	93%-3%	t.b.d.	2-27	95%-3%	
2-20	89%-3%	t.b.d.	2-13	89%-3%	t.b.d.	t.b.d.	t.b.d.	t.b.d.
	N.A.	N.A.		N.A.	N.A.	t.b.d.	t.b.d.	t.b.d.
2-20	92%-3%	t.b.d.	2-13	92%-3%	t.b.d.	2-20	94%-11%	
2-25	91%-3%	t.b.d.	2-17	91%-3%	t.b.d.	5-20	95%-3%	
2-30	88%-3%	t.b.d.	2-20	93%-3%	t.b.d.	2-20	95%-3%	
2-21	94%-3%	t.b.d.	2-14	91%-3%	t.b.d.	2-20	95%-3%	
2-20	84%-3%	t.b.d.	2-17	83%-3%	t.b.d.	2-20	90%-3%	
2-20	88%-7%	<4	2-17	88%-5%	<6	t.b.d.	t.b.d.	t.b.d.
2-20	95%-3%	t.b.d.	2-13	92%-3%	t.b.d.	2-27	94%-3%	
2-15	88%-3%	t.b.d.	2-11	87%-0%	t.b.d.	2-21	93%-3%	
2-20	91%-3%	t.b.d.	2-14	90%-3%	t.b.d.	7-28	96%-3%	
t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.
2-20	95%-3%	t.b.d.	2-13	92%-3%	t.b.d.	2-27	94%-3%	
2-20	95%-7%	<7	2-14	95%-5%	<9	t.b.d.	t.b.d.	t.b.d.
2-25	94%-3%	t.b.d.	2-17	92%-3%	t.b.d.	2-30	91%-3%	
	95%-4%	<7	2-10	96%-3%	<10	t.b.d.	t.b.d.	t.b.d.
	95%-4%	<7	2-10	95%-3%	<10	t.b.d.	t.b.d.	t.b.d.
	95%-7%	<7	2-17	96%-4%	<11	t.b.d.	t.b.d.	t.b.d.
2-26	89%-3%	t.b.d.	2-18	89%-3%	t.b.d.	3-30	94%-3%	
2-25	93%-4%	t.b.d.	2-17	92%-3%	t.b.d.	2-30	91%-3%	
	78%-7%	<6	2-4	77%-4%	<5	t.b.d.	t.b.d.	t.b.d.
t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.
	N.A.	N.A.		N.A.	N.A.	5-27	95%-3%	
2-20	95%-4%	<7	2-13	93%-4%	<9	t.b.d.	t.b.d.	t.b.d.
	N.A.	N.A.		N.A.	N.A.	5-20	96%-3%	
	N.A.	N.A.		N.A.	N.A.	4-30	97%-3%	
	N.A.	N.A.		N.A.	N.A.	t.b.d.	t.b.d.	t.b.d.
	N.A.	N.A.		N.A.	N.A.	2-27	90%-3%	
2-15	94%-3%	t.b.d.	2-10	91%-3%	t.b.d.	2-20	96%-3%	
	79%-4%		8-17	79%-4%		t.b.d.	t.b.d.	t.b.d.
2-20	95%-3%	t.b.d.	2-13	92%-3%	t.b.d.	2-27	94%-3%	
2-15	88%-3%	t.b.d.	2-11	87%-3%	t.b.d.	2-21	93%-3%	
2-20	91%-3%	t.b.d.	2-14	90%-3%	t.b.d.	7-28	96%-3%	
2-23	79%-3%	t.b.d.	2-15	77%-3%	t.b.d.	2-30	83%-3%	
2-25	88%-3%	t.b.d.	2-17	87%-3%	t.b.d.	2-30	88%-3%	
	83%-3%		2-7	82%-3%		t.b.d.	t.b.d.	t.b.d.
	83%-3%			N.A.	N.A.	t.b.d.	t.b.d.	t.b.d.
2-5	96%-5%		2-3	96%-4%		t.b.d.	t.b.d.	t.b.d.
	82%-7%		2-4	82%-5%		t.b.d.	t.b.d.	t.b.d.
2-20	84%-3%	t.b.d.	2-17	83%-3%	t.b.d.	2-20	90%-3%	
2-15	88%-3%	t.b.d.	2-11	87%-3%	t.b.d.	2-21	93%-3%	
2-15	88%-3%	t.b.d.	2-11	87%-3%	t.b.d.	2-21	93%-3%	
2-20	95%-3%	t.b.d.	2-13	92%-3%	t.b.d.	2-27	94%-3%	
2-15	88%-3%	t.b.d.	2-11	87%-3%	t.b.d.	2-21	93%-3%	
2-18	88%-7%		2-12	84%-4%		t.b.d.	t.b.d.	t.b.d.
4-16	89%-4%		5-11	91%-4%	<12	t.b.d.	t.b.d.	t.b.d.
2-13	86%-3%		2-8	79%-3%	<8	t.b.d.	t.b.d.	t.b.d.
2-20	91%-3%	t.b.d.	2-13	90%-3%	t.b.d.	3-27	94%-3%	
t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.
6-25	90%-3%	t.b.d.	4-17	92%-3%	t.b.d.	2-30	94%-3%	<3
6-15	92%-3%	t.b.d.	4-10	86%-3%	t.b.d.	4-30	95%-3%	<3
t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	t.b.d.	2-10	95%-3%	

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