

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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range
	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	[RL]	20 ~ 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 ~ 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	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 (CCTEL10501)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W
Eltako	EVD6INPN-UC		400W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Feller Schneider	40300 (SBD315)	[RLC]	300W
Feller Schneider	40420 (SBD420)	[LED]	420W
GIRA	I176-00/01	[RLC]	50 ~ 420W
GIRA	2390 00/ 100	[LED]	7 ~ 100W - Push (3wire)
Hager	EVN 011	[RC]	300VA
Hager	EVN 012	[RC]	300W
Hager	EVN 004	[RL]	500VA
Jung	225 TDE	[RC]	20 ~ 525 W - Turn
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 ~ 400 W - Turn
Legrand	78401	[RLC]	40 ~ 500W
Legrand	67081	[RL]	40 ~ 400 W - Turn
Legrand	67082	[RL]	40 ~ 600 W - Turn
Legrand	67083	[RLC]	3 ~ 400W
Legrand	67084	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 ~ 500W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W
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]	180W
MK - Electric	K4500 WHILV	[RLC]	400W
NIKO	310-0280X	[LED]	2 ~ 100 VA
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)
RELCO	RP0977	[LED]	4-100W
RELCO	RM0545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W
Schneider	SBD200 (WDE 002299)		4 ~ 400VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315W
VADSBO	ED 350	[RC]	50 ~ 350W
VADSBO	DRS 315	[RC]	50 ~ 315W
VADSBO	DU 250	[RC]	20 ~ 250W
Varilight	HQ3W	[R]	60-400W
Varilight	ICT401 M	[RC]	20-400W
Vimar	20148	[RL]	500W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 ~ 300W
IKEA	E0902 - Dim	[R]	25 ~ 150W

LED bulbs											
E27 6W - 40W clear 6W - 40W frosted Dimmable WarmGlow			E27 9W - 60W clear 9W - 60W frosted Dimmable WarmGlow			E27 6 - 40W CRI80 A60 Dimmable Warmglow			E27 9 - 60W CRI80 A60 Dimmable Warmglow		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1-3	87% ~ 3%		1-3	98% ~ 4%		1-3	98% ~ 8%		1-3	94% ~ 7%	
1-3	90% ~ 3%		1-3	95% ~ 3%		1-3	98% ~ 7%		1-3	96% ~ 5%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
1-3	93% ~ 3%		1-3	94% ~ 5%		1-3	97% ~ 19%		1-3	94% ~ 9%	
1-3	90% ~ 3%		1-3	95% ~ 3%		1-3	99% ~ 3%		1-3	95% ~ 3%	
1-3	92% ~ 3%		1-3	95% ~ 3%		1-3	97% ~ 3%		1-3	97% ~ 3%	
1-3	94% ~ 8%		1-3	96% ~ 5%		1-3	98% ~ 7%		1-3	95% ~ 6%	
1-3	86% ~ 3%		1-3	89% ~ 3%		1-3	83% ~ 3%		1-3	89% ~ 3%	
1-3	91% ~ 4%		1-3	88% ~ 5%		1-3	88% ~ 10%		1-3	97% ~ 6%	
1-3	88% ~ 3%		1-3	90% ~ 4%			N.A.	N.A.	2-3	93% ~ 8%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	98% ~ 3%		1-3	94% ~ 2%	
1-3	89% ~ 3%		1-3	95% ~ 3%			N.A.	N.A.		N.A.	N.A.
						1-3	98% ~ 6%		1-3	99% ~ 3%	
1-3	88% ~ 3%		1-3	90% ~ 4%			N.A.	N.A.	2-3	93% ~ 8%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	98% ~ 3%		1-3	94% ~ 2%	
1-3	89% ~ 3%		1-3	95% ~ 3%			N.A.	N.A.		N.A.	N.A.
1-3	93% ~ 5%		1-3	88% ~ 5%		1-3	99% ~ 19%			N.A.	N.A.
1-3	86% ~ 3%		1-3	91% ~ 3%		1-3	97% ~ 31%		1-3	95% ~ 17%	
1-3	98% ~ 3%		1-3	93% ~ 3%		1-3	98% ~ 8%		1-3	99% ~ 7%	
1-3	98% ~ 3%		1-3	93% ~ 3%		1-3	98% ~ 12%		1-3	99% ~ 6%	
1-3	98% ~ 3%		1-3	93% ~ 3%		1-3	99% ~ 13%		1-3	99% ~ 6%	
1-3	93% ~ 3%		1-3	96% ~ 5%		1-3	98% ~ 9%		1-3	96% ~ 8%	
1-3	87% ~ 7%		1-3	91% ~ 7%		1-3	97% ~ 4%				
1-3	82% ~ 4%		1-3	83% ~ 5%			N.A.	N.A.	1-3	89% ~ 8%	
						2-3	96% ~ 8%		1-3	96% ~ 4%	
		N.A.		N.A.	N.A.		N.A.	N.A.	2-3	96% ~ 5%	
1-3	96% ~ 3%		1-3	93% ~ 3%		1-3	98% ~ 7%		1-3	97% ~ 4%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	2-3	97% ~ 5%	
	N.A.	N.A.		N.A.	N.A.	3	98% ~ 5%		2-3	97% ~ 5%	
	N.A.	N.A.	1-3	90% ~ 3%			N.A.	N.A.	1-2	89% ~ 3%	
1-3	95% ~ 3%		1-3	95% ~ 3%		2-3	99% ~ 6%		1-3	98% ~ 6%	
1-3	88% ~ 17%		1-3	95% ~ 3%		1-3	99% ~ 3%		1-3	96% ~ 3%	
	N.A.	N.A.	2-3	83% ~ 5%		2-3	97% ~ 13%		2-3	89% ~ 6%	
1-3	88% ~ 3%		1-3	90% ~ 4%			N.A.	N.A.	2-3	93% ~ 8%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	98% ~ 3%		1-3	94% ~ 2%	
1-3	89% ~ 3%		1-3	95% ~ 3%			N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.	1-3	80% ~ 3%		1-3	99% ~ 6%		1-3	84% ~ 5%	
1-3	85% ~ 3%		1-3	90% ~ 3%		1-3	97% ~ 6%		1-3	90% ~ 5%	
1-3	88% ~ 3%		1-3	83% ~ 3%		1-3	96% ~ 7%		1-3	90% ~ 3%	
1-3	88% ~ 3%		1-3	85% ~ 3%		1-3	95% ~ 7%		1-3	90% ~ 3%	
1-3	98% ~ 4%		1-3	95% ~ 5%		1-3	98% ~ 3%		1-2	99% ~ 3%	
1-3	88% ~ 4%		1-3	83% ~ 5%		1-3	98% ~ 21%		1-3	92% ~ 3%	
1-3	86% ~ 3%		1-3	89% ~ 3%		1-3	83% ~ 3%		1-3	89% ~ 3%	
						1-3	96% ~ 4%		1-2	99% ~ 9%	
						1-3	98% ~ 8%		1-2	95% ~ 4%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	98% ~ 3%		1-3	94% ~ 2%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	98% ~ 3%		1-3	94% ~ 2%	
1-3	88% ~ 3%		1-3	90% ~ 4%			N.A.	N.A.	2-3	93% ~ 8%	
1-3	93% ~ 3%		1-3	90% ~ 4%		1-3	98% ~ 3%		1-3	94% ~ 2%	
1-3	91% ~ 5%		1-3	85% ~ 5%		1-3	99% ~ 25%		1-3	94% ~ 8%	
	N.A.	N.A.	1-3	93% ~ 3%	<2		N.A.	N.A.		N.A.	N.A.
1-3	88% ~ 3%	<4	1-3	83% ~ 3%	<4	1-3	96% ~ 6%		1-3	90% ~ 3%	
1-3	92% ~ 3%		1-3	99% ~ 3%		1-3	96% ~ 4%		1-3	96% ~ 3%	
						1-3	97% ~ 3%		1-3	88% ~ 2%	
	N.A.	N.A.		N.A.	N.A.	1-3	97% ~ 5%	<3	1-3	96% ~ 4%	<2
1-3	98% ~ 3%		1-3	98% ~ 3%		2-3	98% ~ 3%		1-3	95% ~ 6%	
	N.A.	N.A.	1-3	93% ~ 3%	<4	2-3	95% ~ 3%	<2	1-3	96% ~ 3%	<2
	N.A.	N.A.		N.A.	N.A.	1-3	98% ~ 7%	<3	1-3	95% ~ 9%	<2
1-3	91% ~ 1%		1-3	93% ~ 1%		1-3	97% ~ 7%		1-3	96% ~ 5%	

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 recommend 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 lightsources. (e.g. flickering where "active loads" can reduce your problems)

#4b)Yellow cells indication: Dimming range, minimum dim level will be >10%, and/or maximum level will be <80% lightlevel

#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.

#7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefor we indicated 3% as minimum lightlevel as labcondition.

#8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products.

Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

#9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

Disclaimer:
Philips will not accept claims for any damage caused by implementing the recommendations in this document.



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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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range
	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

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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	[RL]	20 – 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	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 (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W
Eltako	EVD61NPN-UC		400W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)
Feller Schneider	40300 (SBD315)	[RLC]	300W
Feller Schneider	40420 (SBD420)	[RLC]	420W
GIRA	1176-00/01	[RLC]	50 – 420W
GIRA	2390 00/ 100	[LED]	7 – 100W - Push (3wire)
Hager	EVN 011	[RC]	300VA
Hager	EVN 012	[RC]	300W
Hager	EVN 004	[RL]	500VA
Jung	225 TDE	[RC]	20 – 525 W - Turn
Jung	1271LEDDE	[LED]	3 – 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W - Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W - Turn
Legrand	67082	[RL]	40 – 600 W - Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 – 500W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W
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]	180W
MK - Electric	K4500 WHILV	[RLC]	400W
NIKO	310-0280X	[LED]	2 – 100 VA
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)
RELCO	RP0977	[LED]	4-100W
RELCO	RM0545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W
Schneider	SBD200 (WDE 002299)		4 – 400VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315W
VADSBO	ED 350	[RC]	50 – 350W
VADSBO	DRS 315	[RC]	50 – 315W
VADSBO	DU 250	[RC]	20 – 250W
Varilight	HQ3W	[R]	60-400W
Varilight	ICT401 M	[RC]	20-400W
Vimar	20148	[RL]	500W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300W
IKEA	E0902 - Dim	[R]	25 – 150W

LED bulbs											
E27 13 – 75W CRI80 A60 Dimmable Warmglow			E27 13.5 – 100W CRI80 A60 Dimmable Warmglow			E27 17 – 100W CRI80 A67 Dimmable Warmglow			E27 6-40 W Dimmable		
NEW			NEW			NEW			NEW		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1-3	91% – 10%		1 – 3	94% – 9%		1-3	83% – 7%		1-3	94% – 3%	
1-3	76% – 7%		1 – 3	98% – 10%		1-3	88% – 8%		1-3	96% – 3%	
	N.A.	N.A.				1-3	74% – 8%	<2		N.A.	N.A.
1-3	77% – 12%		1 – 3	98% – 15%		1-3	88% – 12%		1-3	98% – 9%	
1-3	75% – 3%		1 – 3	96% – 3%		1-3	90% – 4%			N.A.	N.A.
1-3	79% – 2%		1 – 3	98% – 3%		1-3	91% – 3%		1-3	99% – 3%	
1-3	75% – 7%		1 – 3	98% – 8%		1-3	89% – 7%			98% – 5%	
1-3	88% – 3%		1 – 3	97% – 5%		1-3	86% – 3%		1-3	94% – 3%	
1-3	95% – 8%					1-3	95% – 8%		1-3	91% – 13%	
1-3	77% – 9%		1 – 3	96% – 9%		1-3	84% – 9%		3	91% – 3%	
1-3	89% – 3%		1 – 3	97% – 3%		1-3	84% – 3%		1-3	93% – 3%	
1-3	77% – 5%		1 – 3	99% – 4%		1-3	86% – 5%		1-3	91% – 3%	
1-3	99% – 6%					1-3	99% – 4%				
1-3	77% – 9%		1 – 3	96% – 9%		1-3	84% – 9%		3	91% – 3%	
1-3	89% – 3%		1 – 3	97% – 3%		1-3	84% – 3%		1-3	93% – 3%	
1-3	77% – 5%		1 – 3	99% – 4%		1-3	86% – 5%		1-3	91% – 3%	
1-3	95% – 14%					1-3	92% – 12%		1-3	93% – 15%	
1-3	69% – 16%		1 – 3	97% – 5%		1-3	84% – 18%		1-3	94% – 3%	
1-3	96% – 11%					1-3	97% – 6%		1-3	97% – 3%	
1-3	96% – 11%					1-3	99% – 9%		1-3	97% – 3%	
1-3	98%10%					1-3	99%10%		1-3	97% – 3%	
1-3	90% – 11%		1 – 3	98% – 9%		1-3	85% – 8%		1-3	92% – 8%	
1-3	90% – 6%		1 – 3	98% – 4%		1-3	84% – 4%		1-3	95% – 3%	
1-2	79% – 15%					1	82% – 16%		1-3	84% – 12%	
1-3	96% – 7%					1-3	84% – 7%				
2-3	78% – 5%		1 – 3	98% – 8%		2-3	92% – 6%			N.A.	N.A.
1-3	96% – 7%					1-3	91% – 6%		1-3	93% – 3%	
2-3	77% – 5%					1-3	94% – 7%			N.A.	N.A.
2-3	75% – 5%					2-3	90% – 6%			N.A.	N.A.
1	85% – 4%					1-3	79% – 4%			N.A.	N.A.
1-3	76% – 5%		1 – 3	96% – 3%		1-3	91% – 6%			98% – 3%	
1-3	79% – 3%		1 – 3	99% – 3%		1-3	93% – 3%			96% – 3%	
2-3	85% – 13%					1-3	81% – 11%			N.A.	N.A.
1-3	77% – 9%		1 – 3	96% – 9%		1-3	84% – 9%		3	91% – 3%	
1-3	89% – 3%		1 – 3	97% – 3%		1-3	84% – 3%		1-3	93% – 3%	
1-3	77% – 5%		1 – 3	99% – 4%		1-3	86% – 5%		1-3	91% – 3%	
1-3	66% – 7%		1 – 3	88% – 9%		1-3	75% – 7%		1-3	82% – 3%	
1-3	71% – 6%		1 – 3	93% – 6%		1-3	81% – 6%		1-3	89% – 3%	
1-3	84% – 7%					1-3	87% – 7%		1-3	87% – 3%	
1-3	87% – 7%					1-3	87% – 7%		1-3	87% – 3%	
1-2	99% – 3%					1	98% – 2%		1-3	96% – 4%	
1-3	82% – 5%					1	85% – 5%		1-3	85% – 12%	
1-3	88% – 3%					1-3	86% – 3%		1-3	94% – 3%	
1-2	99% – 14%		1 – 3	98% – 12%		1	98% – 17%				
1-2	90% – 6%		1 – 3	94% – 6%		1	89% – 6%				
1-3	89% – 3%		1 – 3	97% – 3%		1-3	84% – 3%		1-3	93% – 3%	
1-3	89% – 3%		1 – 3	97% – 3%		1-3	84% – 3%		1-3	93% – 3%	
1-3	77% – 9%		1 – 3	96% – 9%		1-3	84% – 9%		3	91% – 3%	
1-3	89% – 3%		1 – 3	97% – 3%		1-3	84% – 3%		1-3	93% – 3%	
1-3	87% – 13%					1-3	82% – 11%		1-3	89% – 16%	
1-3	92% – 9%	<4				1-3	94% – 8%	<4	1-3	92% – 3%	
1-3	85% – 5%	<4				1-3	79% – 4%	<4	1-3	87% – 3%	
1-3	74% – 5%		1 – 3	94% – 4%		1-3	87% – 5%		1-3	95% – 3%	
1-3	83% – 7%					1-3	91% – 3%				
1-2	78% – 5%	<4				1-3	89% – 6%	<4		N.A.	N.A.
1-3	97% – 3%					1-3	98% – 3%		1-3	99% – 3%	
1-3	96% – 4%	<4	1 – 3	95% – 6%	<2	1-3	88% – 4%	<4		N.A.	N.A.
1-2	75% – 5%	<4	1 – 3	95% – 5%	<2	1-3	87% – 5%	<4	1-3	95% – 5%	
1-3	79% – 7%		1 – 2	98% – 8%		1-2	90% – 8%		1-3	96% – 2%	

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 recommend to use dimmable lamps in combination with it.

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#4a)Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional lightsources. (e.g. flickering where "active loads" can reduce your problems)

#4b)Yellow cells indication: Dimming range, minimum dim level will be >10%, and/or maximum level will be <80% lightlevel

#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.

#7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefor we indicated 3% as minimum lightlevel as labcondition.

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#9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

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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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range
	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	[RL]	20 ~ 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 ~ 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	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 (CCTEL10501)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W
Eltako	EVD6INPN-UC		400W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Feller Schneider	40300 (SBD315)	[RLC]	300W
Feller Schneider	40420 (SBD420)	[RLC]	420W
GIRA	1176-00/01	[RLC]	50 ~ 420W
GIRA	2390 00/ 100	[LED]	7 ~ 100W - Push (3wire)
Hager	EVN 011	[RC]	300VA
Hager	EVN 012	[RC]	300W
Hager	EVN 004	[RL]	500VA
Jung	225 TDE	[RC]	20 ~ 525 W - Turn
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 ~ 400 W - Turn
Legrand	78401	[RLC]	40 ~ 500W
Legrand	67081	[RL]	40 ~ 400 W - Turn
Legrand	67082	[RL]	40 ~ 600 W - Turn
Legrand	67083	[RLC]	3 ~ 400W
Legrand	67084	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 ~ 500W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W
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]	180W
MK - Electric	K4500 WHILV	[RLC]	400W
NIKO	310-0280X	[LED]	2 ~ 100 VA
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)
RELCO	RP0977	[LED]	4-100W
RELCO	RM0545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W
Schneider	SBD200 (WDE 002299)		4 ~ 400VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315W
VADSBO	ED 350	[RC]	50 ~ 350W
VADSBO	DRS 315	[RC]	50 ~ 315W
VADSBO	DU 250	[RC]	20 ~ 250W
Varilight	HQ3W	[R]	60-400W
Varilight	ICT401 M	[RC]	20-400W
Vimar	20148	[RL]	500W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 ~ 300W
IKEA	E0902 - Dim	[R]	25 ~ 150W

LED bulbs								
E27 9.5-60 W Dimmable			E27 11.5-75 W Dimmable			E27 16-100 W Dimmable		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1-3	95% ~ 3%		1-3	90% ~ 10%		1-3	91% ~ 9%	
1-3	92% ~ 11%		1-3	94% ~ 12%			N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
1-3	94% ~ 15%		1-3	92% ~ 24%		1-3	94% ~ 25%	
1-3	95% ~ 3%		1-3	94% ~ 3%		1-3	94% ~ 3%	
1-3	92% ~ 3%		1-3	96% ~ 3%		1-3	94% ~ 3%	
	92% ~ 4%		1-3	92% ~ 10%		1-3	93% ~ 9%	
1-3	94% ~ 3%		1-3	82% ~ 3%		1-3	90% ~ 3%	
1-3	92% ~ 19%		1-3	88% ~ 23%		1-3	91% ~ 25%	
1-3	91% ~ 7%		1-3	88% ~ 13%		1-3	90% ~ 13%	
1-3	98% ~ 3%		1-3	88% ~ 3%		1-3	90% ~ 3%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	94% ~ 3%	
1-3	91% ~ 7%		1-3	88% ~ 13%		1-3	90% ~ 13%	
1-3	98% ~ 3%		1-3	88% ~ 3%		1-3	90% ~ 3%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	94% ~ 3%	
1-3	93% ~ 13%		1-3	92% ~ 20%		1-3	93% ~ 19%	
1-3	99% ~ 3%		1-3	90% ~ 3%		1-3	91% ~ 3%	
1-3	97% ~ 3%		1-3	97% ~ 3%		1-3	96% ~ 4%	
1-3	97% ~ 3%		1-3	95% ~ 3%		1-3	95% ~ 4%	
1-3	97% ~ 3%		1-3	97% ~ 5%		1-3	98% ~ 4%	
1-3	93% ~ 7%		1-3	90% ~ 10%		1-3	91% ~ 11%	
1-3	93% ~ 3%		1-3	90% ~ 28%		1-3	91% ~ 26%	
1-3	87% ~ 20%		1-3	83% ~ 25%		1-3	85% ~ 23%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
1-3	93% ~ 3%		1-3	92% ~ 5%		1-3	94% ~ 5%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
	92% ~ 3%		1-3	92% ~ 5%		1-3	92% ~ 5%	
	97% ~ 3%		1-3	94% ~ 3%		1-3	94% ~ 3%	
2-3	87% ~ 11%		1-3	85% ~ 17%		1-3	85% ~ 16%	
1-3	91% ~ 7%		1-3	88% ~ 13%		1-3	90% ~ 13%	
1-3	98% ~ 3%		1-3	88% ~ 3%		1-3	90% ~ 3%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	94% ~ 3%	
1-3	84% ~ 6%		1-3	82% ~ 10%		1-3	83% ~ 9%	
1-3	92% ~ 3%		1-3	78% ~ 8%		1-3	88% ~ 8%	
1-3	88% ~ 3%		1-3	78% ~ 8%		1-3	88% ~ 8%	
1-3	87% ~ 3%		1-3	78% ~ 8%		1-3	88% ~ 8%	
1-3	96% ~ 5%		1-3	95% ~ 13%		1-3	95% ~ 13%	
1-3	89% ~ 27%		1-3	88% ~ 28%		1-3	88% ~ 28%	
1-3	94% ~ 3%		1-3	82% ~ 3%		1-3	90% ~ 3%	
1-3	98% ~ 3%		1-3	88% ~ 3%		1-3	90% ~ 3%	
1-3	98% ~ 3%		1-3	88% ~ 3%		1-3	90% ~ 3%	
1-3	91% ~ 7%		1-3	88% ~ 13%		1-3	90% ~ 13%	
1-3	98% ~ 3%		1-3	88% ~ 3%		1-3	90% ~ 3%	
1-3	85% ~ 11%		1-3	85% ~ 17%		1-3	83% ~ 15%	
1-3	92% ~ 3%		1-3	90% ~ 7%		1-3	91% ~ 6%	
1-3	83% ~ 3%		1-3	80% ~ 3%		1-3	80% ~ 3%	
1-3	95% ~ 3%		1-3	94% ~ 3%		1-3	93% ~ 3%	
1-3	94% ~ 3%		1-3	94% ~ 7%		1-3	94% ~ 6%	
1-3	99% ~ 3%		1-3	97% ~ 3%		1-3	98% ~ 3%	
1-3	92% ~ 3%		1-3	90% ~ 3%		1-3	91% ~ 3%	
1-3	88% ~ 3%		1-3	88% ~ 3%		1-3	91% ~ 3%	
1-3	95% ~ 10%		1-3	92% ~ 12%		1-2	94% ~ 9%	

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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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range
	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

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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	[RL]	20 ~ 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 ~ 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	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 (CCTEL10501)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W
Eltako	EVD61NPN-UC		400W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Feller Schneider	40300 (SBD315)	[RLC]	300W
Feller Schneider	40420 (SBD420)	[RLC]	420W
GIRA	I176-00/01	[RLC]	50 ~ 420W
GIRA	2390 00/ 100	[LED]	7 ~ 100W - Push (3wire)
Hager	EVN 011	[RC]	300VA
Hager	EVN 012	[RC]	300W
Hager	EVN 004	[RL]	500VA
Jung	225 TDE	[RC]	20 ~ 525 W - Turn
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 ~ 400 W - Turn
Legrand	78401	[RLC]	40 ~ 500W
Legrand	67081	[RL]	40 ~ 400 W - Turn
Legrand	67082	[RL]	40 ~ 600 W - Turn
Legrand	67083	[RLC]	3 ~ 400W
Legrand	67084	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 ~ 500W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W
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]	180W
MK - Electric	K4500 WHILV	[RLC]	400W
NIKO	310-0280X	[LED]	2 ~ 100 VA
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)
RELCO	RP0977	[LED]	4-100W
RELCO	RM0545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W
Schneider	SBD200 (WDE 002299)		4 ~ 400VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315W
VADSBO	ED 350	[RC]	50 ~ 350W
VADSBO	DRS 315	[RC]	50 ~ 315W
VADSBO	DU 250	[RC]	20 ~ 250W
Varilight	HQ3W	[R]	60-400W
Varilight	ICT401 M	[RC]	20-400W
Vimar	20148	[RL]	500W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 ~ 300W
IKEA	E0902 - Dim	[R]	25 ~ 150W

Classic LED bulbs								
E27 5.5 - 40W A60 Dimmable WarmGlow			E27 8.5 - 60W A60 Dimmable WarmGlow			E27 12 - 100W A67 Dimmable		
								
						NEW		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1-3	87% ~ 3%		1-3	98% ~ 4%		1-3	92% ~ 14%	
1-3	90% ~ 3%		1-3	95% ~ 3%		1-3	98% ~ 14%	
	N.A.	N.A.		N.A.	N.A.			
1-3	93% ~ 3%		1-3	94% ~ 5%		1-3	97% ~ 7%	
1-3	90% ~ 3%		1-3	95% ~ 3%		1-3	98% ~ 3%	
1-3	92% ~ 3%		1-3	95% ~ 3%		1-3	98% ~ 15%	
1-3	94% ~ 8%		1-3	96% ~ 5%		1-3	96% ~ 13%	
1-3	86% ~ 3%		1-3	89% ~ 3%		1-3	94% ~ 19%	
1-3	91% ~ 4%		1-3	88% ~ 5%				
1-3	88% ~ 3%		1-3	90% ~ 4%		1-3	90% ~ 15%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	90% ~ 3%	
1-3	89% ~ 3%		1-3	95% ~ 3%		1-3	93% ~ 15%	
1-3	88% ~ 3%		1-3	90% ~ 4%		1-3	90% ~ 15%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	90% ~ 3%	
1-3	89% ~ 3%		1-3	95% ~ 3%		1-3	93% ~ 15%	
1-3	93% ~ 5%		1-3	88% ~ 5%				
1-3	86% ~ 3%		1-3	91% ~ 3%		1-3	97%5%	
1-3	98% ~ 3%		1-3	93% ~ 3%				
1-3	98% ~ 3%		1-3	93% ~ 3%				
1-3	98% ~ 3%		1-3	93% ~ 3%				
1-3	93% ~ 3%		1-3	96% ~ 5%		1-3	94% ~ 16%	
1-3	87% ~ 7%		1-3	91% ~ 7%		1-3	97%3%	
1-3	82% ~ 4%		1-3	83% ~ 5%				
		N.A.		N.A.	N.A.		N.A.	N.A.
1-3	96% ~ 3%		1-3	93% ~ 3%				
	N.A.	N.A.		N.A.	N.A.			
	N.A.	N.A.		N.A.	N.A.			
	N.A.	N.A.	1-3	90% ~ 3%				
1-3	95% ~ 3%		1-3	95% ~ 3%		1-3	98% ~ 4%	
1-3	88% ~ 17%		1-3	95% ~ 3%		1-3	94% ~ 3%	
	N.A.	N.A.	2-3	83% ~ 5%				
1-3	88% ~ 3%		1-3	90% ~ 4%		1-3	90% ~ 15%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	90% ~ 3%	
1-3	89% ~ 3%		1-3	95% ~ 3%		1-3	93% ~ 15%	
	N.A.	N.A.	1-3	80% ~ 3%		1-3	84% ~ 16%	
1-3	85% ~ 3%		1-3	90% ~ 3%		1-3	91% ~ 8%	
1-3	88% ~ 3%		1-3	83% ~ 3%				
1-3	88% ~ 3%		1-3	85% ~ 3%				
1-3	98% ~ 4%		1-3	95% ~ 5%				
1-3	88% ~ 4%		1-3	83% ~ 5%				
1-3	86% ~ 3%		1-3	89% ~ 3%				
						1-3	99% ~ 23%	
						1-3	83% ~ 6%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	90% ~ 3%	
1-3	93% ~ 3%		1-3	92% ~ 3%		1-3	90% ~ 3%	
1-3	88% ~ 3%		1-3	90% ~ 4%		1-3	90% ~ 15%	
1-3	93% ~ 3%		1-3	90% ~ 4%		1-3	90% ~ 3%	
1-3	91% ~ 5%		1-3	85% ~ 5%				
	N.A.	N.A.	1-3	93% ~ 3%	<2			
1-3	88% ~ 3%	<4	1-3	83% ~ 3%	<4			
1-3	92% ~ 3%		1-3	99% ~ 3%		1-3	96% ~ 3%	
	N.A.	N.A.		N.A.	N.A.	1-3	97% ~ 8%	
1-3	98% ~ 3%		1-3	98% ~ 3%				
	N.A.	N.A.	1-3	93% ~ 3%	<4			
	N.A.	N.A.		N.A.	N.A.	1-3	92% ~ 3%	
1-3	91% ~ 1%		1-3	93% ~ 1%		1-3	92% ~ 8%	

Note :

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#7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefor we indicated 3% as minimum lightlevel as labcondition.

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#9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

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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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range
	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	[RL]	20 – 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	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 (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W
Eltako	EVD61NPN-UC		400W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)
Feller Schneider	40300 (SBD315)	[RLC]	300W
Feller Schneider	40420 (SBD420)	[RLC]	420W
GIRA	I176-00/01	[RLC]	50 – 420W
GIRA	2390 00/ 100	[LED]	7 – 100W - Push (3wire)
Hager	EVN 011	[RC]	300VA
Hager	EVN 012	[RC]	300W
Hager	EVN 004	[RL]	500VA
Jung	225 TDE	[RC]	20 – 525 W - Turn
Jung	1271LEDDE	[LED]	3 – 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W - Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W - Turn
Legrand	67082	[RL]	40 – 600 W - Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 – 500W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W
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]	180W
MK - Electric	K4500 WHILV	[RLC]	400W
NIKO	310-0280X	[LED]	2 – 100 VA
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)
RELCO	RP0977	[LED]	4-100W
RELCO	RM0545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W
Schneider	SBD200 (WDE 002299)		4 – 400VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315W
VADSBO	ED 350	[RC]	50 – 350W
VADSBO	DRS 315	[RC]	50 – 315W
VADSBO	DU 250	[RC]	20 – 250W
Varilight	HQ3W	[R]	60-400W
Varilight	ICT401 M	[RC]	20-400W
Vimar	20148	[RL]	500W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300W
IKEA	E0902 - Dim	[R]	25 – 150W

Classic LED bulbs								
<div>E27 8 – 50W A60 gold / 5.5 – 40W ST64 CL 8 – 50W ST64 gold / 8 – 60W ST64 CL 8 – 60W G93 CL / 8 – 60W G120 gold</div>			<div>E27 7.5 – 48W A60 gold / 8 – 50W ST64 gold / 8 – 60W G120 gold 5.5 – 40W A60 CL / 8 – 60W A60 CL / 5.5 – 40W A60 WGD 8.5 – 60W A60 WGD / 8.5 – 60W ST64 WGD / 8 – 60W ST64 CL</div>			<div>E27 6.5 – 40W G200 GOLD DIM / 6.5 – 40W A160 GOLD DIM 6.5 – 40W T65 GOLD DIM</div>		
NEW						NEW		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1-3	99% – 3%		1-3	98% – 3%		1-3	87% – 15%	
1-3	99% – 3%		2-3	97% – 3%		1-2	93% – 7%	
	N.A.	N.A.					N.A.	N.A.
1-3	99% – 3%		1-3	98% – 8%		1-3	97% – 13%	
1-3	99% – 3%		1-3	98% – 3%		1-3	92% – 3%	
1-3	99% – 3%		1-3	97% – 3%		1-2	91% – 12%	
1-3	99% – 3%		1-3	99% – 3%		1-3	92% – 13%	
1-3	99% – 3%		1-3	97% – 3%		1-3	84% – 16%	
1-3	97% – 3%		1-3	93% – 3%		1-3	98% – 15%	
2-3	99% – 3%		2-3	99% – 3%		1-3	91% – 16%	
2-3	99% – 3%		2-3	98% – 3%		1-3	91% – 3%	
	N.A.	N.A.		N.A.	N.A.	3	94% – 17%	
1-3	97% – 3%		1-3	91% – 3%		1-3	99% – 7%	
2-3	99% – 3%		2-3	99% – 3%		1-3	91% – 16%	
2-3	99% – 3%		2-3	98% – 3%		1-3	91% – 3%	
	N.A.	N.A.		N.A.	N.A.	3	94% – 17%	
1-3	97% – 3%		1-3	99% – 3%		1-3	98% – 28%	
1-3	99% – 3%					1-3	83% – 4%	
1-3	97% – 3%		1-3	92% – 3%		1-3	99% – 19%	
1-3	97% – 3%		1-3	92% – 3%		1-3	99% – 19%	
1-3	97% – 3%		1-3	92% – 3%		1-3	99% – 20%	
1-3	98% – 3%		1-3	98% – 3%		1-3	89% – 17%	
1-3	99% – 3%		1-3	97% – 3%		1-3	83% – 4%	
1-3	99% – 12%		1-3	86% – 4%		1-3	87% – 30%	
	N.A.	N.A.	1-3	92% – 3%		1-3	90% – 11%	
	N.A.	N.A.	2-3	98% – 3%		3	95% – 9%	
1-3	97% – 3%		1-3	91% – 3%		1-3	97% – 10%	
				N.A.	N.A.			
			2-3	97% – 3%				
1	96% – 3%		1-3	90% – 3%		1-3	88% – 6%	
1-3	99% – 3%		1-3	97% – 3%		2-3	92% – 8%	
1-3	99% – 3%		1-3	97% – 3%		1-3	93% – 3%	
	N.A.	N.A.	2-3	88% – 3%		2-3	85% – 20%	
2-3	99% – 3%		2-3	99% – 3%		1-3	91% – 16%	
2-3	99% – 3%		2-3	98% – 3%		1-3	91% – 3%	
	N.A.	N.A.		N.A.	N.A.	3	94% – 17%	
1-3	99% – 3%		2-3	93% – 3%		1	68% – 12%	
	N.A.	N.A.	1-3	98% – 3%		1-2	84% – 8%	
	N.A.	N.A.	1-3	98% – 3%		1-3	87% – 12%	
	N.A.	N.A.	1-3	92% – 3%		1-3	88% – 12%	
1-3	97% – 3%		1-3	91% – 3%		1-3	96% – 2%	
1-3	97% – 3%		1-3	97% – 3%		1-3	89% – 4%	
			1-3	97% – 3%		1-3	84% – 16%	
1-3	99% – 3%		1-3	98% – 3%		1-3	98% – 4%	
1-3	99% – 3%		1-3	92% – 3%		1-3	91% – 10%	
2-3	99% – 3%		2-3	98% – 3%		1-3	91% – 3%	
2-3	99% – 3%		2-3	98% – 3%		1-3	91% – 3%	
2-3	99% – 3%		2-3	99% – 3%		1-3	91% – 16%	
2-3	99% – 3%		2-3	98% – 3%		1-3	91% – 3%	
1-3	97% – 3%		1-3	98% – 3%		1-3	93% – 25%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
1-3	97% – 3%		1-3	84% – 3%		1-3	89% – 4%	
1-3	99% – 3%		2-3	97% – 3%		1-3	89% – 5%	
1-3	88% – 3%		1-3	75% – 3%		1-3	88% – 9%	
	N.A.	N.A.	1-3	98% – 3%		1-3	94% – 8%	
	N.A.	N.A.	1-3	89% – 3%		1-3	99% – 4%	
1-3	97% – 3%		1-3	91% – 3%		1-3	99% – 5%	
1-3	99% – 3%		1-3	98% – 3%		1-3	93% – 5%	
1-3	99% – 3%		1-3	98% – 3%		1-3	92% – 5%	

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)

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Consumer LED Mains Voltage range

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



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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	[RL]	20 ~ 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 ~ 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	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 (CCTEL10501)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W
Eltako	EVD6INPN-UC		400W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Feller Schneider	40300 (SBD315)	[RLC]	300W
Feller Schneider	40420 (SBD420)	[RLC]	420W
GIRA	I176-00/01	[RLC]	50 ~ 420W
GIRA	2390 00/ 100	[LED]	7 ~ 100W - Push (3wire)
Hager	EVN 011	[RC]	300VA
Hager	EVN 012	[RC]	300W
Hager	EVN 004	[RL]	500VA
Jung	225 TDE	[RC]	20 ~ 525 W - Turn
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 ~ 400 W - Turn
Legrand	78401	[RLC]	40 ~ 500W
Legrand	67081	[RL]	40 ~ 400 W - Turn
Legrand	67082	[RL]	40 ~ 600 W - Turn
Legrand	67083	[RLC]	3 ~ 400W
Legrand	67084	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 ~ 500W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W
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]	180W
MK - Electric	K4500 WHILV	[RLC]	400W
NIKO	310-0280X	[LED]	2 ~ 100 VA
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)
RELCO	RP0977	[LED]	4-100W
RELCO	RM0545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W
Schneider	SBD200 (WDE 002299)		4 ~ 400VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315W
VADSBO	ED 350	[RC]	50 ~ 350W
VADSBO	DRS 315	[RC]	50 ~ 315W
VADSBO	DU 250	[RC]	20 ~ 250W
Varilight	HQ3W	[R]	60-400W
Varilight	ICT401 M	[RC]	20-400W
Vimar	20148	[RL]	500W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 ~ 300W
IKEA	E0902 - Dim	[R]	25 ~ 150W

Classic LED bulbs								
E27 5 - 30W Mushroom gold			E27 5 - 40W Diamond Clear			E27 6.5 - 25W Giant G200 smoky 6.5 - 25W Giant A160 smoky 6.5 - 25W T65 smoky		
NEW			NEW			NEW		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1-3	99% ~ 3%		1-3	99% ~ 3%		1-3	91% ~ 6%	
2-3	99% ~ 3%		2-3	99% ~ 3%		1-3	93% ~ 4%	
	N.A.	N.A.	2-3	82% ~ 3%				
1-3	99% ~ 7%		1-3	99% ~ 8%		1-3	93% ~ 13%	
1-3	99% ~ 3%		2-3	99% ~ 3%		1-3	92% ~ 3%	
2-3	99% ~ 3%		2-3	99% ~ 3%		1-3	93% ~ 3%	
1-3	99% ~ 3%		1-3	99% ~ 3%		1-3	93% ~ 4%	
1-3	99% ~ 3%		1-3	99% ~ 3%		1-3	90% ~ 8%	
1-3	99% ~ 3%		1-3	99% ~ 3%				
	N.A.	N.A.	1-3	99% ~ 3%		1-3	92% ~ 6%	
2-3	99% ~ 3%		2-3	99% ~ 3%		1-3	90% ~ 3%	
	N.A.	N.A.		N.A.	N.A.	2-3	95% ~ 5%	
1-3	989 ~ 3%		1-3	99% ~ 3%				
	N.A.	N.A.	1-3	99% ~ 3%		1-3	92% ~ 6%	
2-3	99% ~ 3%		2-3	99% ~ 3%		1-3	90% ~ 3%	
	N.A.	N.A.		N.A.	N.A.	2-3	95% ~ 5%	
1-3	99% ~ 3%		1-3	99% ~ 3%				
1-3	99% ~ 3%		1-3	99% ~ 3%		1-3	89% ~ 3%	
1-3	99% ~ 3%		1-3	99% ~ 3%				
1-3	99% ~ 3%		1-3	97% ~ 3%				
1-3	99% ~ 3%		1-3	99% ~ 3%				
1-3	99% ~ 3%		1-3	99% ~ 3%		1-3	92% ~ 7%	
1-3	99% ~ 3%		1-3	99% ~ 3%		1-3	88% ~ 3%	
	N.A.	N.A.	1-3	99% ~ 4%				
2-3	98% ~ 3%		2-3	99% ~ 3%				
	N.A.	N.A.	2-3	92% ~ 3%			N.A.	N.A.
1-3	98% ~ 3%		1-3	97% ~ 3%				
1-3	98% ~ 3%		1-3	97% ~ 3%				
1-3	98% ~ 4%		2-3	99% ~ 3%		1-3	94% ~ 3%	
1-3	98% ~ 3%		1-3	98% ~ 3%		1-3	97% ~ 3%	
2-3	98% ~ 3%		2-3	97% ~ 3%				
	N.A.	N.A.	1-3	99% ~ 3%		1-3	92% ~ 6%	
2-3	99% ~ 3%		2-3	99% ~ 3%		1-3	90% ~ 3%	
	N.A.	N.A.		N.A.	N.A.	2-3	95% ~ 5%	
2-3	92% ~ 3%		2-3	92% ~ 3%		2-3	81% ~ 5%	
1 or 3	99% ~ 3%		1-3	99% ~ 3%		2-3	87% ~ 3%	
1-3	98% ~ 3%		1-3	99% ~ 3%				
1-3	98% ~ 3%		1-3	98% ~ 3%				
1-3	98% ~ 3%		1-3	98% ~ 3%				
1-3	97% ~ 3%		1-3	98% ~ 3%				
1-3	99% ~ 3%		1-3	99% ~ 3%		1-3	96% ~ 16%	
1-3	99% ~ 3%		1-3	99% ~ 3%		1-3	90% ~ 3%	
2-3	99% ~ 3%		2-3	99% ~ 3%		1-3	90% ~ 3%	
2-3	99% ~ 3%		2-3	99% ~ 3%		1-3	90% ~ 3%	
	N.A.	N.A.	1-3	99% ~ 3%		1-3	92% ~ 6%	
2-3	99% ~ 3%		2-3	99% ~ 3%		1-3	90% ~ 3%	
1-3	98% ~ 3%		1-3	97% ~ 3%				
3	98% ~ 3%			N.A.	N.A.			
1-3	91% ~ 3%		1-3	91% ~ 3%				
2-3	98% ~ 3%		2-3	92% ~ 3%		2-3	92% ~ 3%	
2-3	87% ~ 3%		1-3	93% ~ 3%				
1-3	99% ~ 3%	< 2	2-3	99% ~ 3%	< 2	1 or 3	92% ~ 3%	
3	98% ~ 3%		1-3	98% ~ 3%				
1-3	99% ~ 3%		1-3	99% ~ 3%				
1-3	99% ~ 3%	< 2	1-3	99% ~ 3%		1-3	90% ~ 4%	
1-3	98% ~ 3%		2-3	99% ~ 3%		1-3	92% ~ 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)

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Consumer LED Mains Voltage range

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



KEY

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N.A.	Dimmer lamp combination not applicable
T.B.D.	Dimmer lamp combination not tested

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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	[RL]	20 ~ 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 ~ 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	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 (CCTEL10501)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W
Eltako	EVD6INPN-UC		400W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Feller Schneider	40300 (SBD315)	[RLC]	300W
Feller Schneider	40420 (SBD420)	[RLC]	420W
GIRA	I176-00/01	[RLC]	50 ~ 420W
GIRA	2390 00/ 100	[LED]	7 ~ 100W - Push (3wire)
Hager	EVN 011	[RC]	300VA
Hager	EVN 012	[RC]	300W
Hager	EVN 004	[RL]	500VA
Jung	225 TDE	[RC]	20 ~ 525 W - Turn
Jung	127ILEDDE	[LED]	3 ~ 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 ~ 400 W - Turn
Legrand	78401	[RLC]	40 ~ 500W
Legrand	67081	[RL]	40 ~ 400 W - Turn
Legrand	67082	[RL]	40 ~ 600 W - Turn
Legrand	67083	[RLC]	3 ~ 400W
Legrand	67084	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 ~ 500W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W
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]	180W
MK - Electric	K4500 WHILV	[RLC]	400W
NIKO	310-0280X	[LED]	2 ~ 100 VA
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)
RELCO	RP0977	[LED]	4-100W
RELCO	RM0545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W
Schneider	SBD200 (WDE 002299)		4 ~ 400VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315W
VADSBO	ED 350	[RC]	50 ~ 350W
VADSBO	DRS 315	[RC]	50 ~ 315W
VADSBO	DU 250	[RC]	20 ~ 250W
Varilight	HQ3W	[R]	60-400W
Varilight	ICT401 M	[RC]	20-400W
Vimar	20148	[RL]	500W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 ~ 300W
IKEA	E0902 - Dim	[R]	25 ~ 150W

LED candle / LED lustre								
E14/E27 4 - 25W Dimmable WarmGlow			E14 / E27 6 - 40W Dimmable WarmGlow			E14 8 - 60W B40 / 6 - 40W P48 Dimmable Wanglow		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	NEW Dimming Performance	NEW Dimming Range	NEW Glowing
2-18	96% ~ 3%		2-12	93% ~ 3%		2-12	90% ~ 3%	
2-20	89% ~ 3%		2-13	89% ~ 3%				
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
2-20	92% ~ 3%		2-13	92% ~ 3%				
2-25	91% ~ 3%		2-17	91% ~ 3%				
2-30	88% ~ 3%		2-20	93% ~ 3%		2-15	92% ~ 3%	
2-21	94% ~ 3%		2-14	91% ~ 3%		2-14	91% ~ 3%	
2-20	84% ~ 3%		2-17	83% ~ 3%		2-15	88% ~ 3%	
2-20	88% ~ 7%	<4	2-17	88% ~ 5%	< 6	2-17	99% ~ 3%	
2-20	95% ~ 3%		2-13	92% ~ 3%		2-13	90% ~ 3%	
2-15	88% ~ 3%		2-11	87% ~ 0%		2-11	90% ~ 3%	
2-20	91% ~ 3%		2-14	90% ~ 3%				
2-20	95% ~ 7%	<7	2-14	95% ~ 5%	< 9	2-14	99% ~ 4%	
2-25	94% ~ 3%		2-17	92% ~ 3%				
	95% ~ 4%	<7	2-10	96% ~ 3%	< 10	2-10	99% ~ 3%	
	95% ~ 4%	<7	2-10	95% ~ 3%	< 10	2-10	99% ~ 3%	
	95% ~ 7%	<7	2-17	96% ~ 4%	< 11	2-10	99% ~ 3%	
2-26	89% ~ 3%		2-18	89% ~ 3%		2-10	89% ~ 3%	
2-25	93% ~ 4%		2-17	92% ~ 3%		2-15	90% ~ 3%	
	78% ~ 7%	<6	2-4	77% ~ 4%	< 5	2-4	88% ~ 3%	
						2-10	94% ~ 3%	
	N.A.	N.A.		N.A.	N.A.			
2-20	95% ~ 4%	<7	2-13	93% ~ 4%	< 9	2-13	99% ~ 3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.			
	N.A.	N.A.		N.A.	N.A.	2-5	87% ~ 3%	
	N.A.	N.A.		N.A.	N.A.			
2-15	94% ~ 3%		2-10	91% ~ 3%		2-10	95% ~ 3%	
	79% ~ 4%		8-17	79% ~ 4%		3-17	90% ~ 3%	
2-20	95% ~ 3%		2-13	92% ~ 3%		2-13	90% ~ 3%	
2-15	88% ~ 3%		2-11	87% ~ 3%		2-11	90% ~ 3%	
2-20	91% ~ 3%		2-14	90% ~ 3%				
2-23	79% ~ 3%		2-15	77% ~ 3%		2-15	80% ~ 3%	
2-25	88% ~ 3%		2-17	87% ~ 3%		2-15	80% ~ 3%	
	83% ~ 3%		2-7	82% ~ 3%		2-7	90% ~ 3%	
	83% ~ 3%			N.A.	N.A.	2-13	84% ~ 3%	
2-5	96% ~ 5%		2-3	96% ~ 4%		2-3	99% ~ 3%	
	82% ~ 7%		2-4	82% ~ 5%		2-4	89% ~ 3%	
2-20	84% ~ 3%		2-17	83% ~ 3%		2-15	88% ~ 3%	
						2-3	99% ~ 4%	
						2-3	96% ~ 3%	
2-15	88% ~ 3%		2-11	87% ~ 3%		2-11	90% ~ 3%	
2-15	88% ~ 3%		2-11	87% ~ 3%		2-11	90% ~ 3%	
2-20	95% ~ 3%		2-13	92% ~ 3%		2-13	90% ~ 3%	
2-15	88% ~ 3%		2-11	87% ~ 3%		2-11	90% ~ 3%	
2-18	88% ~ 7%		2-12	84% ~ 4%		2-12	90% ~ 3%	
4-16	89% ~ 4%		5-11	91% ~ 4%	< 12	3-11	80% ~ 3%	
2-13	86% ~ 3%		2-8	79% ~ 3%	< 8	2-8	85% ~ 3%	
2-20	91% ~ 3%		2-13	90% ~ 3%		2-13	90% ~ 3%	
						2-13	88% ~ 3%	
6-25	90% ~ 3%	<6	4-17	92% ~ 3%	<4			
2-20	99% ~ 3%		2-17	96% ~ 3%	< 7	2-17	93% ~ 3%	
	89% ~ 3%		2-10	89% ~ 3%	< 11	2-17	96% ~ 3%	
6-15	92% ~ 3%	<6	4-10	86% ~ 3%	<4			

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 recommend 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 lightsources. (e.g. flickering where "active loads" can reduce your problems)

#4b)Yellow cells indication: Dimming range, minimum dim level will be >10%, and/or maximum level will be <80% lightlevel

#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.

#7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefor we indicated 3% as minimum lightlevel as labcondition.

#8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products.

Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

#9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

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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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range
	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

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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	[RL]	20 ~ 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 ~ 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	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 (CCTEL10501)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W
Eltako	EVD61NPN-UC		400W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Feller Schneider	40300 (SBD315)	[RLC]	300W
Feller Schneider	40420 (SBD420)	[RLC]	420W
GIRA	I176-00/01	[RLC]	50 ~ 420W
GIRA	2390 00/ 100	[LED]	7 ~ 100W - Push (3wire)
Hager	EVN 011	[RC]	300VA
Hager	EVN 012	[RC]	300W
Hager	EVN 004	[RL]	500VA
Jung	225 TDE	[RC]	20 ~ 525 W - Turn
Jung	127ILEDDE	[LED]	3 ~ 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 ~ 400 W - Turn
Legrand	78401	[RLC]	40 ~ 500W
Legrand	67081	[RL]	40 ~ 400 W - Turn
Legrand	67082	[RL]	40 ~ 600 W - Turn
Legrand	67083	[RLC]	3 ~ 400W
Legrand	67084	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 ~ 500W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W
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]	180W
MK - Electric	K4500 WHILV	[RLC]	400W
NIKO	310-0280X	[LED]	2 ~ 100 VA
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)
RELCO	RP0977	[LED]	4-100W
RELCO	RM0545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W
Schneider	SBD200 (WDE 002299)		4 ~ 400VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315W
VADSBO	ED 350	[RC]	50 ~ 350W
VADSBO	DRS 315	[RC]	50 ~ 315W
VADSBO	DU 250	[RC]	20 ~ 250W
Varilight	HQ3W	[R]	60-400W
Varilight	ICT401 M	[RC]	20-400W
Vimar	20148	[RL]	500W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 ~ 300W
IKEA	E0902 - Dim	[R]	25 ~ 150W

LED candle / LED lustre								
E14 4 - 15W Flame			B35/P45 2.7 ~ 25W CL / 5 - 40W CL 5 - 35W Gold			E14/E27 5 - 32W B35 gold 5 - 32W P45 gold 5 - 32W BA35 gold		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	NEW Dimming Performance	Dimming Range	Glowing
2 - 20	89% ~ 16%		2-8	99% ~ 3%		2 - 10	94%- 3%	
2 - 20	93% ~ 12%		2-8	99% ~ 3%		2 - 10	97%- 3%	
	N.A.	N.A.		N.A.	N.A.			
2 - 20	94% ~ 14%		2-8	99% ~ 12%		2 - 10	97%- 11%	
2 - 20	93% ~ 3%		2-8	99% ~ 3%		2 - 10	97%- 3%	
2 - 20	94% ~ 3%		3-8	99% ~ 3%		2 - 10	95%- 3%	
2 - 20	91% ~ 15%		2-8	99% ~ 3%		3 - 10	97%- 3%	
2 - 20	88% ~ 3%		2-6	99% ~ 3%		2 - 10	97%- 3%	
2 - 20	96% ~ 14%		2-20	97% ~ 3%				
2 - 20	89% ~ 21%		2-8	99% ~ 3%		5 - 10	96%- 3%	
2 - 16	88% ~ 3%		3-8	99% ~ 3%		5 - 10	97%- 3%	
2 - 20	94% ~ 5%		3-8	99% ~ 3%			N.A.	N.A.
2 - 20	99% ~ 5%		2-16	96% ~ 3%				
2 - 20	89% ~ 21%		2-8	99% ~ 3%		5 - 10	96%- 3%	
2 - 16	88% ~ 3%		3-8	99% ~ 3%		5 - 10	97%- 3%	
2 - 20	94% ~ 5%		3-8	99% ~ 3%			N.A.	N.A.
2 - 20	98% ~ 29%		2-17	97% ~ 3%				
2 - 20	89% ~ 7%		2-8	99% ~ 19%		2 - 10	97%- 3%	
2 - 15	89% ~ 7%		2-12	96% ~ 3%				
2 - 15	97% ~ 19%		2-12	96% ~ 3%				
2 - 20	98% ~ 20%		2-20	96% ~ 3%				
2 - 20	91% ~ 19%		2-8	99% ~ 3%		2 - 10	94%- 3%	
2 - 20	90% ~ 5%		2-8	99% ~ 3%		2 - 10	95%- 3%	
2 - 6	84% ~ 29%		2-5	93% ~ 4%				
	N.A.	N.A.	2-12	96% ~ 3%				
	N.A.	N.A.	3-8	99% ~ 3%			N.A.	N.A.
2 - 20	96% ~ 14%		2-16	95% ~ 3%				
	N.A.	N.A.	3-8	99% ~ 3%				
	N.A.	N.A.	3-8	99% ~ 3%				
	N.A.	N.A.	2-16	95% ~ 3%				
2 - 20	94% ~ 9%		2-8	99% ~ 3%		2 - 10	97%- 3%	
2 - 20	94% ~ 9%		2-8	99% ~ 3%		2 - 10	94%- 3%	
5 - 20	84% ~ 21%		3-20	95% ~ 3%				
2 - 20	89% ~ 21%		2-8	99% ~ 3%		5 - 10	96%- 3%	
2 - 16	88% ~ 3%		3-8	99% ~ 3%		5 - 10	97%- 3%	
2 - 20	94% ~ 5%		3-8	99% ~ 3%			N.A.	N.A.
2 - 20	80% ~ 11%		3-8	99% ~ 3%		2 - 10	97%- 3%	
3 - 20	85% ~ 11%		3-8	99% ~ 3%		2 - 10	97%- 3%	
2 - 10	86% ~ 10%		3-9	96% ~ 3%				
2 - 20	87% ~ 10%		8-16	96% ~ 3%				
2 - 5	99% ~ 3%		2-4	94% ~ 3%				
2 - 6	86% ~ 3%		2-5	96% ~ 3%				
2 - 20	88% ~ 3%		2-6	99% ~ 3%				
			2-4	96% ~ 3%		2 - 10	97%- 3%	
				N.A.	N.A.	2 - 10	97%- 3%	
2 - 16	88% ~ 3%		3-8	99% ~ 3%		5 - 10	97%- 3%	
2 - 16	88% ~ 3%		3-8	99% ~ 3%		5 - 10	97%- 3%	
2 - 20	89% ~ 21%		2-8	99% ~ 3%		5 - 10	96%- 3%	
2 - 16	88% ~ 3%		3-8	99% ~ 3%		5 - 10	97%- 3%	
2 - 20	89% ~ 25%		2-14	95% ~ 3%				
10 - 16	93% ~ 15%		3-13	95% ~ 3%				
2 - 13	84% ~ 3%		2-10	85% ~ 3%				
2 - 20	92% ~ 3%		3-8	99% ~ 3%		2 - 10	96%- 3%	
2 - 20	84% ~ 9%		3-16	90% ~ 3%				
2 - 20	91% ~ 8%		2-8	99% ~ 3%	<2	2 - 10	97%- 3%	
2 - 20	99% ~ 3%		5-20	96% ~ 3%				
3 - 20	93% ~ 3%		2-20	96% ~ 3%				
2 - 20	89% ~ 11%		2-8	99% ~ 3%	<2	2 - 10	97%- 3%	
2 - 8	92% ~ 12%		2-8	99% ~ 3%		2 - 6	97%- 3%	

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Consumer LED Mains Voltage range

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



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Busch Jaeger ABB	6513 U - 102	[RC]	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 (CCTEL10501)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W
Eltako	EVD6INPN-UC		400W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
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Feller Schneider	40420 (SBD420)	[RLC]	420W
GIRA	1176-00/01	[RLC]	50 ~ 420W
GIRA	2390 00/ 100	[LED]	7 ~ 100W - Push (3wire)
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Hager	EVN 012	[RC]	300W
Hager	EVN 004	[RL]	500VA
Jung	225 TDE	[RC]	20 ~ 525 W - Turn
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
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Legrand	67082	[RL]	40 ~ 600 W - Turn
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Legrand	67084	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 ~ 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 ~ 500W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W
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]	180W
MK - Electric	K4500 WHILV	[RLC]	400W
NIKO	310-0280X	[LED]	2 ~ 100 VA
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)
RELCO	RP0977	[LED]	4-100W
RELCO	RM0545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W
Schneider	SBD200 (WDE 002299)		4 ~ 400VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315W
VADSBO	ED 350	[RC]	50 ~ 350W
VADSBO	DRS 315	[RC]	50 ~ 315W
VADSBO	DU 250	[RC]	20 ~ 250W
Varilight	HQ3W	[R]	60-400W
Varilight	ICT401 M	[RC]	20-400W
Vimar	20148	[RL]	500W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 ~ 300W
IKEA	E0902 - Dim	[R]	25 ~ 150W

Classic LED spot														
GU10 4.5 - 35W WarmGlow			GU10 5 - 50W Warmglow			GU10 4 - 35W Dimmable			GU10 5 - 50W Dimmable			GU10 7 - 80W Dim		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
2 - 8	94%- 8%		2 - 8	92%- 3%		2-20	91% ~ 25%		2-15	85% ~ 19%		2- 5	89%- 20%	
2 - 8	87%- 3%		2 - 8	93%- 3%		2-20	95% ~ 24%		2-15	88% ~ 19%		2- 5	93%- 20%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.			
2 - 8	86%- 4%		2 - 8	92%- 3%		2-18	93% ~ 19%		2-15	89% ~ 17%		2- 5	91%- 17%	
2 - 8	86%- 3%		2 - 8	94%- 3%		2-20	93% ~ 10%		2-18	97% ~ 6%		2- 5	93%- 7%	
2 - 8	89%- 3%		2 - 8	94%- 3%		2-20	96% ~ 7%		2-20	98% ~ 4%		2- 5	95%- 4%	
2 - 8	96%- 4%		2 - 8	94%- 3%		2-20	94% ~ 23%		2-15	87% ~ 20%		2- 5	92%- 18%	
2 - 8	89%- 3%		2 - 8	89%- 3%		2-20	90% ~ 2%		2-20	93% ~ 17%		2- 5	88%- 3%	
2 - 20	93%- 3%		2 - 20	94%- 3%		2-20	96% ~ 24%		2-18	96% ~ 18%				
	N.A.	N.A.	2 - 8	92%- 3%		2-20	92% ~ 29%		2-15	85% ~ 23%		2- 5	90%- 24%	
3 - 8	95%- 3%		2 - 8	92%- 3%		2-14	91% ~ 6%		2-11	91% ~ 5%		2- 5	89%- 4%	
	N.A.	N.A.	3 - 8	95%- 3%		2-19	94% ~ 14%		2-15	97% ~ 13%		2- 5	95%- 12%	
2 - 20	99%- 3%		2 - 16	99%- 3%		2-14	99% ~ 15%	< 19	2-15	99% ~ 14%	< 16			
	N.A.	N.A.	2 - 8	92%- 3%		2-20	92% ~ 29%		2-15	85% ~ 23%		2- 5	90%- 24%	
3 - 8	95%- 3%		2 - 8	92%- 3%		2-14	91% ~ 6%		2-11	91% ~ 5%		2- 5	89%- 4%	
	N.A.	N.A.	3 - 8	95%- 3%		2-19	94% ~ 14%		2-15	97% ~ 13%		2- 5	95%- 12%	
2 - 20	93%- 3%		2 - 16	94%- 3%		2-19	94% ~ 36%		2-15	95% ~ 32%				
2 - 8	91%- 3%					2-13	97% ~ 13%		2-18	90% ~ 14%		2- 5	88%- 36%	
2 - 17	98%- 5%		2 - 12	99%- 3%		2-14	97% ~ 19%	< 6	2-11	97% ~ 16%	< 12			
2 - 17	98%- 5%		2 - 12	99%- 3%		2-14	98% ~ 19%	< 5	2-11	97% ~ 16%	< 12			
2 - 17	98%- 5%		2 - 20	97%- 3%		2-20	98% ~ 19%		2-18	97% ~ 16%				
2 - 8	96%- 8%		2 - 8	91%- 3%		2-20	92% ~ 26%		2-15	87% ~ 22%		2- 5	89%- 19%	
2 - 8	91%- 3%		2 - 8	91%- 3%		2-20	93% ~ 37%		2-20	88% ~ 35%		2- 5	88%- 11%	
2 - 7	83%- 7%	< 3	2 - 5	78%- 3%		2-5	88% ~ 3%		2-4	87% ~ 37%				
2 - 17	80%- 3%		2 - 12	89%- 3%		2-14	93% ~ 3%			N.A.	N.A.			
	N.A.	N.A.	2 - 8	94%- 3%			N.A.	N.A.		N.A.	N.A.	2- 5	94%- 17%	
2 - 20	95%- 3%		2 - 16	94%- 3%		2-18	96% ~ 3%	< 3	2-15	92% ~ 16%	< 3			
	N.A.	N.A.	3 - 8	95%- 3%			N.A.	N.A.		N.A.	N.A.	2- 5	93%- 15%	
	N.A.	N.A.	3 - 8	94%- 3%			N.A.	N.A.		N.A.	N.A.	2- 5	95%- 17%	
2 - 20	84%- 3%		2 - 16	81%- 3%		2-3	89% ~ 12%			N.A.	N.A.			
2 - 8	96%- 4%	< 3	2 - 8	93%- 3%		2-18	98% ~ 20%		2-15	88% ~ 15%		2- 5	93%- 13%	
2 - 8	99%- 3%		2 - 8	95%- 3%			N.A.	N.A.	2-11	99% ~ 3%		2- 5	97%- 3%	
	N.A.	N.A.	3 - 20	78%- 3%		8-20	91% ~ 30%		3-18	86% ~ 28%				
	N.A.	N.A.	2 - 8	92%- 3%		2-20	92% ~ 29%		2-15	85% ~ 23%		2- 5	90%- 24%	
3 - 8	95%- 3%		2 - 8	92%- 3%		2-14	91% ~ 6%		2-11	91% ~ 5%		2- 5	89%- 4%	
	N.A.	N.A.	3 - 8	95%- 3%		2-19	94% ~ 14%		2-15	97% ~ 13%		2- 5	95%- 12%	
	N.A.	N.A.	2 - 8	70%- 3%		3-20	85% ~ 20%		2-15	77% ~ 15%		2- 5	81% ~ 17%	
2 - 8	80%- 3%		2 - 8	87%- 3%		3-20	89% ~ 19%		2-18	81% ~ 17%		2- 5	86% ~ 15%	
2 - 13	78%- 3%		2 - 9	86%- 3%		3-10	89% ~ 19%		2-8	90% ~ 19%				
2 - 20	77%- 3%		2 - 16	83%- 3%		3-15	90% ~ 20%		2-15	88% ~ 19%				
2 - 6	98%- 3%		2 - 4	97%- 3%		2-5	97% ~ 8%		2-4	97% ~ 7%				
2 - 3	76%- 3%		2 - 5	81%- 3%		2-5	89% ~ 10%		2-4	87% ~ 10%				
2 - 8	89%- 3%		2 - 8	89%- 3%		2-20	90% ~ 3%		2-20	93% ~ 17%		2- 5	88%- 3%	
2 - 6	97%- 9%		2 - 4	97%- 6%										
2 - 6	94%- 3%		2 - 4	92%- 3%										
3 - 8	95%- 3%		2 - 8	92%- 3%		2-14	91% ~ 6%		2-11	91% ~ 5%		2- 5	89%- 4%	
3 - 8	95%- 3%		2 - 8	92%- 3%		2-14	91% ~ 6%		2-11	91% ~ 5%		2- 5	89%- 4%	
	N.A.	N.A.	2 - 8	92%- 3%		2-20	92% ~ 29%		2-15	85% ~ 23%		2- 5	90%- 24%	
3 - 8	95%- 3%		2 - 8	92%- 3%		2-14	91% ~ 6%		2-11	91% ~ 5%		2- 5	89%- 4%	
2 - 20	90%- 7%		2 - 14	88%- 4%		2-16	93% ~ 34%		2-13	88% ~ 29%				
	N.A.	N.A.	2 - 13	93%- 3%		8-14	95% ~ 24%	< 15	3-11	97% ~ 21%	< 12			
2 - 14	91%- 3%		2 - 10	80%- 3%	< 11	2-11	89% ~ 11%	< 12	2-9	89% ~ 9%	< 10			
2 - 8	85%- 3%		2 - 8	93%- 3%		2-18	98% ~ 14%		2-15	88% ~ 8%		2- 5	91%- 10%	
2 - 20	84%- 3%		2 - 16	86%- 3%		2-18	94% ~ 10%		2-15	92% ~ 7%				
2 - 8	87%- 3%	< 9	3 - 8	92%- 3%	< 9	2-20	94% ~ 17%		2-18	88% ~ 16%	< 4	2- 5	93% ~ 14%	< 6
2 - 8	97%- 3%		2 - 20	94%- 3%		2-20	98% ~ 3%		2-18	97% ~ 9%				
2 - 20	83%- 3%	< 9	3 - 20	94%- 3%	< 14	2-14	94% ~ 13%	< 15	2-18	94% ~ 12%	< 19			
2 - 8	94%- 4%	< 9	2 - 8	91%- 3%	< 9	3-13	93% ~ 14%		2-11	84% ~ 11%	< 4	2- 5	90% ~ 13%	< 6
2 - 8	87%- 3%	< 2	2 - 6	93%- 3%								2- 5	94%- 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 recommend 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 lightsources. (e.g. flickering where "active loads" can reduce your problems)

#4b)Yellow cells indication: Dimming range, minimum dim level will be >10%, and/or maximum level will be <80% lightlevel

#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.

#7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefor we indicated 3% as minimum lightlevel as labcondition.

#8) Dimmermanufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

#9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

Disclaimer:
Philips will not accept claims for any damage caused by implementing the recommendations in this document.



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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range
	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	[RL]	20 – 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	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 (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W
Eltako	EVD61NPN-UC		400W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)
Feller Schneider	40300 (SBD315)	[RLC]	300W
Feller Schneider	40420 (SBD420)	[RLC]	420W
GIRA	1176-00/01	[RLC]	50 – 420W
GIRA	2390 00/ 100	[LED]	7 – 100W - Push (3wire)
Hager	EVN 011	[RC]	300VA
Hager	EVN 012	[RC]	300W
Hager	EVN 004	[RL]	500VA
Jung	225 TDE	[RC]	20 – 525 W - Turn
Jung	1271LEDDE	[LED]	3 – 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W – 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W - Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W - Turn
Legrand	67082	[RL]	40 – 600 W - Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 – 500W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W
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]	180W
MK - Electric	K4500 WHILV	[RLC]	400W
NIKO	310-0280X	[LED]	2 – 100 VA
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)
RELCO	RPO977	[LED]	4-100W
RELCO	RM0545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W
Schneider	SBD200 (WDE 002299)		4 – 400VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315W
VADSBO	ED 350	[RC]	50 – 350W
VADSBO	DRS 315	[RC]	50 – 315W
VADSBO	DU 250	[RC]	20 – 250W
Varilight	HQ3W	[R]	60-400W
Varilight	ICT401 M	[RC]	20-400W
Vimar	20148	[RL]	500W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300W
IKEA	E0902 - Dim	[R]	25 – 150W

Classic LED spot														
R50 5 – 60W Dimmable			R63 4.5 – 60W Dimmable			PAR20 6 – 50W			PAR30 9.5 – 75W			PAR38 13 – 100W		
NEW			NEW											
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1 – 15	89% – 20%		1 – 5	79%- 3%		1 – 10	91%- 12%		1 – 8	93%- 12%		1 – 5	94%- 13%	
1 – 4	94% – 14%		1 – 5	85% – 14%		1 – 5	93%- 6%		1 – 8	96%- 11%		1 – 5	96%- 12%	
							N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
1 – 15	91% – 12%		1 – 5	85% – 6%		1 – 10	93%- 6%		1 – 8	95%- 11%		1 – 8	97%- 57%	
1 – 10	92% – 16%		1 – 5	85% – 3%		1 – 14	92%- 3%		1 – 11	94%- 3%		1 – 8	95%- 3%	
2 – 20	96% – 6%		1 – 5	85% – 3%		1 – 8	95%- 3%		1 – 13	96%- 3%		1 – 9	96%- 3%	
1 – 15	94% – 18%		1 – 2	83% – 3%		1 – 15	92%- 12%		1 – 9	93%- 12%		1	93%- 12%	
1 – 20	90% – 2%		1 – 5	77% – 3%		1 – 14	93%- 3%		1 – 11	95%- 3%		1 – 15	96%- 3%	
						1 – 17	94%- 10%		1 – 11	95%- 12%		1 – 8	93%- 11%	
1 – 15	89% – 23%		1 – 5	78% – 3%		1 – 10	92%- 14%		1 – 8	92%- 18%		1 – 5	93%- 15%	
1 – 15	89% – 5%		1 – 5	77% – 3%		1 – 9	92%- 4%		1 – 7	94%- 4%		1 – 5	94%- 4%	
1 – 15	93% – 12%		3 – 5	85% – 3%		1 – 12	94%- 7%		1 – 9	96%- 7%			N.A.	N.A.
						1 – 13	98%- 7%		1 – 8	95%- 7%		1 – 6	96%- 8%	
1 – 15	89% – 23%		1 – 5	78% – 3%		1 – 10	92%- 14%		1 – 8	92%- 18%		1 – 5	93%- 15%	
1 – 15	89% – 5%		1 – 5	77% – 3%		1 – 9	92%- 4%		1 – 7	94%- 4%		1 – 5	94%- 4%	
1 – 15	93% – 12%		3 – 5	85% – 3%		1 – 12	94%- 7%		1 – 9	96%- 7%			N.A.	N.A.
						1 – 14	96%- 17%		1 – 9	88%- 7%			N.A.	N.A.
1 – 20	91% – 12%		1 – 5	79%- 3%		1 – 10	93%- 3%		1 – 9	97%- 3%		1 – 5	94%- 4%	
						1 – 10	98%- 8%		1 – 6	96%- 6%		5	97%- 9%	
						1 – 10	98%- 13%		1 – 6	96%- 14%		5	97%- 14%	
						1 – 17	98%- 14%		1 – 11	97%- 14%		8	97%- 14%	
1 – 20	89% – 22%			N.A.	N.A.	1 – 15	98%- 13%		1 – 11	93%- 13%		1 – 8	92%- 14%	
1 – 20	91% – 34%		1 – 5	80%- 3%		1 – 10	92%- 3%		1 – 10	94%- 3%		1 – 8	95%- 3%	
						1 – 4	93%- 19%		1 – 3	89%- 20%		1 – 2	92%- 21%	
						1 – 10	58%- 3%		1 – 6	84%- 3%		1 – 5	81%- 3%	
	N.A.	N.A.		N.A.	N.A.	2 – 11	93%- 6%		1 – 8	96%- 6%		1 – 6	97%- 7%	
						1 – 13	94%- 7%		5 – 8	93%- 8%			N.A.	N.A.
	N.A.	N.A.				2 – 9	94%- 5%		1 – 6	96%- 3%		1 – 5	98%- 7%	
	N.A.	N.A.				2 – 15	94%- 5%		1 – 13	96%- 3%			N.A.	N.A.
						1 – 3	94%- 3%		1 – 2	89%- 3%		1 – 6	92%- 3%	
1 – 15	92% – 14%		1 – 2	77%- 3%		1 – 11	93%- 8%		1 – 8	94%- 3%			N.A.	N.A.
1 – 10	97% – 3%		1 – 5	93%- 3%		1 – 9	97%- 3%		1 – 6	98%- 3%			N.A.	N.A.
							N.A.	N.A.		N.A.	N.A.	2 – 3	91%- 15%	
1 – 15	89% – 23%		1 – 5	78% – 3%		1 – 10	92%- 14%		1 – 8	92%- 18%		1 – 5	93%- 15%	
1 – 15	89% – 5%		1 – 5	77% – 3%		1 – 9	92%- 4%		1 – 7	94%- 4%		1 – 5	94%- 4%	
1 – 15	93% – 12%		3 – 5	85% – 3%		1 – 12	94%- 7%		1 – 9	96%- 7%			N.A.	N.A.
2 – 4	82% – 19%		2	62%- 6%		1 – 13	77%- 7%		1 – 5	84%- 5%		1 – 7	88%- 10%	
1 – 20	88% – 17%		3 – 5	69%- 3%		1 – 15	96%- 30%		1 – 7	84%- 5%		1 – 8	93%- 6%	
						1 – 7	92%- 5%		1 – 9	93%- 8%		1 – 3	92%- 8%	
						1 – 11	99%- 29%		1 – 11	93%- 6%		1 – 6	91%- 6%	
						1 – 3	96%- 4%		1 – 2	86%- 4%		1 – 2	94%- 5%	
						1 – 4	95%- 3%		1 – 3	86%- 3%		1 – 2	91%- 3%	
						1 – 14	93%- 3%		1 – 11	95%- 3%		1 – 15	96%- 3%	
						1 – 3	99%- 15%		1 – 2	89%- 13%		1 – 2	99%- 17%	
						1 – 5	74%- 3%		1 – 2	83%- 8%		1 – 3	93%- 9%	
1 – 15	89% – 5%		1 – 5	77% – 3%		1 – 9	92%- 4%		1 – 7	94%- 4%		1 – 5	94%- 4%	
1 – 15	89% – 5%		1 – 5	77% – 3%		1 – 9	92%- 4%		1 – 7	94%- 4%		1 – 5	94%- 4%	
1 – 15	89% – 23%		1 – 5	78% – 3%		1 – 10	92%- 14%		1 – 8	92%- 18%		1 – 5	93%- 15%	
1 – 15	89% – 5%		1 – 5	77% – 3%		1 – 9	92%- 4%		1 – 7	94%- 4%		1 – 5	94%- 4%	
						1 – 12	93%- 14%		1 – 7	82%- 13%		1 – 5	90%- 1%	
						1 – 11	95%- 10%		1 – 7	90%- 10%		1 – 5	94%- 11%	
						1 – 14	96%- 17%		1 – 5	88%- 15			N.A.	N.A.
1 – 15	94% – 13%		2	84%- 3%		1 – 8	91%- 5%		1 – 8	95%- 4%		1 – 6	94%- 5%	
						1 – 13	94%- 5%		1 – 8	89%- 5%		1 – 6	93%- 5%	
2 – 20	92% – 16%	< 21	1 – 2	84%- 3%		1 – 14	92%- 4%		1 – 11	97%- 3%		1 – 8	95%- 5%	
						1 – 15	99%- 3%		1 – 11	89%- 3%		1 – 8	96%- 3%	
						1 – 10	95%- 3%		1 – 6	90%- 3%		1 – 8	92%- 3%	
1 – 10	90% – 12%	< 11	1 – 3	77%- 3%		1 – 9	91%- 7%		1 – 6	96%- 8%		1 – 5	35%- 7%	
1 – 3	94% – 16%		1 – 5	87%- 12%		2 – 5	94%- 9%		1 – 3	92%- 3%		1 – 2	98%- 14%	

Note :

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Disclaimer:
Philips will not accept claims for any damage caused by implementing the recommendations in this document.

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	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range
	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	[RL]	20 ~ 500 W-Turn
Busch Jaeger ABB	2250 U	[R]	60 ~ 600 W-Turn
Busch Jaeger ABB	6513 U-102	[RC]	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 (CCTEL10501)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W
Eltako	EVD6INPN-UC		400W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Feller Schneider	40300 (SBD315)	[RLC]	300W
Feller Schneider	40420 (SBD420)	[RLC]	420W
GIRA	1176-00/01	[RLC]	50 ~ 420W
GIRA	2390 00/ 100	[LED]	7 ~ 100W-Push (3wire)
Hager	EVN 011	[RC]	300VA
Hager	EVN 012	[RC]	300W
Hager	EVN 004	[RL]	500VA
Jung	225 TDE	[RC]	20 ~ 525 W-Turn
Jung	1271LEDDE	[LED]	3 ~ 100W-Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W
Klik aan Klik uit	ACM 300		300W-3-wire Push LED Dimmer
Legrand	774161	[RL]	40 ~ 400 W-Turn
Legrand	78401	[RLC]	40 ~ 500W
Legrand	67081	[RL]	40 ~ 400 W-Turn
Legrand	67082	[RL]	40 ~ 600 W-Turn
Legrand	67083	[RLC]	3 ~ 400W
Legrand	67084	[RLC]	8-300 VA-Push LED (3wire)
Legrand	67085 (078406)		8-300 VA-Push LED (3wire)
Legrand	L4402N	[R]	60 ~ 500W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200W(RC) 4 ~ 400W(RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W
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]	180W
MK-Electric	K4500 WHILV	[RLC]	400W
NIKO	310-0280X	[LED]	2 ~ 100 VA
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W
Philips	UID8670	[LED]	2 ~ 100 VA-LED-Push (3wire)
RELCO	RP0977	[LED]	4-100W
RELCO	RM0545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W
Schneider	SBD200 (WDE 002299)		4 ~ 400VA-Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315W
VADSBO	ED 350	[RC]	50 ~ 350W
VADSBO	DRS 315	[RC]	50 ~ 315W
VADSBO	DU 250	[RC]	20 ~ 250W
Varilight	HQ3W	[R]	60-400W
Varilight	ICT401 M	[RC]	20-400W
Vimar	20148	[RL]	500W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 ~ 300W
IKEA	E0902-Dim	[R]	25 ~ 150W

LED capsule								
G9 2.5-25W Dimmable			R7S (118mm) 14-100W Dimmable			R7S (118mm) 14-120W Dimmable		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
3-20	96% ~ 27%		1	89% ~ 8%		1	94% ~ 21%	
3-20	86% ~ 23%		1	94% ~ 3%		1	97% ~ 16%	
	N.A.	N.A.					N.A.	N.A.
3-20	85% ~ 33%		1	91% ~ 23%		1	98% ~ 27%	
3-20	83% ~ 9%		1	93% ~ 3%		1	96% ~ 3%	
3-20	87% ~ 6%		1	96% ~ 3%		1	95% ~ 15%	
3-20	98% ~ 24%		1	93% ~ 7%		1	97% ~ 23%	
3-20	92% ~ 3%		1	88% ~ 3%		1	92% ~ 21%	
3-20	97% ~ 23%	< 7				1	96% ~ 15%	
3-20	96% ~ 30%		1	89% ~ 3%		1	94% ~ 21%	
3-20	95% ~ 9%		1	88% ~ 10%		1	93% ~ 4%	
	N.A.	N.A.					N.A.	N.A.
3-20	99% ~ 15%					1 - 3	97% ~ 7%	
3-20	96% ~ 30%		1	89% ~ 3%		1	94% ~ 21%	
3-20	95% ~ 9%		1	88% ~ 10%		1	93% ~ 4%	
	N.A.	N.A.					N.A.	N.A.
3-20	96% ~ 39%	< 12				1 - 3	93% ~ 25%	
3-18	91% ~ 15%		1	89% ~ 4%		1	92% ~ 10%	
3-20	98% ~ 18%	< 14				1 - 3	95% ~ 16%	
3-20	99% ~ 28%	< 14				1 - 3	97% ~ 17%	
3-20	99% ~ 28%	< 15				1 - 3	99% ~ 18%	
3-20	96% ~ 33%		1	90% ~ 10%		1	94% ~ 23%	
3-20	94% ~ 3%		1	90% ~ 3%		1	93% ~ 9%	
3-10	86% ~ 3%	< 11					84% ~ 30%	
3-20	33% ~ 3%	< 10					92% ~ 10%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
3-20	97% ~ 3%	< 13				1 - 3	97% ~ 11%	
	N.A.	N.A.		N.A.	N.A.	1	93% ~ 30%	
	N.A.	N.A.		N.A.	N.A.	1	92% ~ 11%	
	N.A.	N.A.					88% ~ 6%	
3-20	97% ~ 23%		1	93% ~ 3%		1	96% ~ 3%	
3-20	99% ~ 4%		1	98% ~ 3%		1	99% ~ 3%	
	N.A.	N.A.				1	87% ~ 22%	
3-20	96% ~ 30%		1	89% ~ 3%		1	94% ~ 21%	
3-20	95% ~ 9%		1	88% ~ 10%		1	93% ~ 4%	
	N.A.	N.A.					N.A.	N.A.
3-20	72% ~ 19%		1	82% ~ 10%		1	81% ~ 15%	
3-10	82% ~ 17%		1	88% ~ 6%		1	89% ~ 12%	
	N.A.	N.A.				1 - 3	90% ~ 12%	
	N.A.	N.A.				1 - 3	90% ~ 13%	
3-9	98% ~ 8%					1	98% ~ 3%	
3-10	76% ~ 4%					1 - 2	85% ~ 4%	
3-20	92% ~ 3%		1	88% ~ 3%				
						1	97% ~ 27%	
						1	89% ~ 10%	
3-20	95% ~ 9%		1	88% ~ 10%		1	93% ~ 4%	
3-20	95% ~ 9%		1	88% ~ 10%		1	93% ~ 4%	
3-20	96% ~ 30%		1	89% ~ 3%		1	94% ~ 21%	
3-20	95% ~ 9%		1	88% ~ 10%		1	93% ~ 4%	
5-20	93% ~ 34%					1 - 3	99% ~ 22%	
	N.A.	N.A.					N.A.	N.A.
3-20	92% ~ 14%	<21				1 - 3	82% ~ 5%	<2
3-20	85% ~ 14%		1	93% ~ 3%		1	95% ~ 6%	
3-20	85% ~ 14%	< 11				1 - 3	85% ~ 2%	
	N.A.	N.A.	1	94% ~ 4%		1	95% ~ 12%	
3-20	98% ~ 3%	<10	1	90% ~ 5%		1 - 3	96% ~ 3%	
	N.A.	N.A.				1 - 3	95% ~ 6%	<2
3-20	96% ~ 18%	<21				1	94% ~ 15%	
3-20	96% ~ 6%		1	93% ~ 9%		1	95% ~ 12%	

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