

# 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*

				LED bulbs											
				E27 6W - 40W clear 6W - 40W frosted Dimmable WarmGlow			E27 9W - 60W clear 9W - 60W frosted Dimmable WarmGlow			E27 6 - 40W CR180 A60 Dimmable WarmGlow			E27 9 - 60W CR180 A60 Dimmable WarmGlow		
										NEW			NEW		
				Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Brand	Type	Type	Load												
Berker  INSTA	286710	[RC]	20 - 360 W - Turn	1-3	87% - 3%		1-3	98% - 4%		1-3	98% - 8%		1-3	94% - 7%	
Berker  INSTA	283010	[R]	60 - 400 W - Turn	1-3	90% - 3%		1-3	95% - 3%		1-3	98% - 7%		1-3	96% - 5%	
Bticino	L4407	[ ]	60 - 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger  ABB	2200 U - 503	[R]	60 - 400 W - Turn	1-3	93% - 3%		1-3	94% - 5%		1-3	97% - 19%		1-3	94% - 9%	
Busch Jaeger  ABB	2247 U	[R L]	20 - 500 W - Turn	1-3	90% - 3%		1-3	95% - 3%		1-3	99% - 3%		1-3	95% - 3%	
Busch Jaeger  ABB	2250 U	[R]	60 - 600 W - Turn	1-3	92% - 3%		1-3	95% - 3%		1-3	97% - 3%		1-3	97% - 3%	
Busch Jaeger  ABB	6513 U - 102	[RC]	40 - 420 W - Turn	1-3	94% - 8%		1-3	96% - 5%		1-3	98% - 7%		1-3	95% - 6%	
Busch Jaeger  ABB	6523 U	[LED]	2 - 100 VA-LED - Turn	1-3	86% - 3%		1-3	89% - 3%		1-3	83% - 3%		1-3	89% - 3%	
Busch Jaeger  ABB	6526 U	[LED]	2 - 100 VA-LED - Push (2wire)	1-3	91% - 4%		1-3	88% - 5%		1-3	88% - 10%		1-3	97% - 6%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	88% - 3%		1-3	90% - 4%			N.A.	N.A.	2-3	93% - 8%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	1-3	93% - 3%		1-3	92% - 3%		1-3	98% - 3%		1-3	94% - 2%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	1-3	89% - 3%		1-3	95% - 3%			N.A.	N.A.		N.A.	N.A.
Eltako	EVD61NPN-UC		400W 3-wire Push Module							1-3	98% - 6%		1-3	99% - 3%	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	88% - 3%		1-3	90% - 4%			N.A.	N.A.	2-3	93% - 8%	
Feller  Schneider	40300 (SBD315)	[RLC]	300W	1-3	93% - 3%		1-3	92% - 3%		1-3	98% - 3%		1-3	94% - 2%	
Feller  Schneider	40420 (SBD420)	[RLC]	420W	1-3	89% - 3%		1-3	95% - 3%			N.A.	N.A.		N.A.	N.A.
GIRA	1176-00/01	[RLC]	50 - 420W	1-3	93% - 5%		1-3	88% - 5%		1-3	99% - 19%			N.A.	N.A.
GIRA	2390 00/100	[LED]	7 - 100W - Push (3wire)	1-3	86% - 3%		1-3	91% - 3%		1-3	97% - 31%		1-3	95% - 17%	
Hager	EVN 011	[RC]	300VA	1-3	98% - 3%		1-3	93% - 3%		1-3	98% - 8%		1-3	99% - 7%	
Hager	EVN 012	[RC]	300W	1-3	98% - 3%		1-3	93% - 3%		1-3	98% - 12%		1-3	99% - 6%	
Hager	EVN 004	[RL]	500VA	1-3	98% - 3%		1-3	93% - 3%		1-3	99% - 13%		1-3	99% - 6%	
Jung	225 TDE	[RC]	20 - 525 W - Turn	1-3	93% - 3%		1-3	96% - 5%		1-3	98% - 9%		1-3	96% - 8%	
Jung	1271LEDDE	[LED]	3 - 100W - Push (3wire)	1-3	87% - 7%		1-3	91% - 7%		1-3	97% - 4%				
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	1-3	82% - 4%		1-3	83% - 5%			N.A.	N.A.	1-3	89% - 8%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer							2-3	96% - 8%		1-3	96% - 4%	
Legrand	774161	[RL]	40 - 400 W - Turn			N.A.		N.A.	N.A.		N.A.	N.A.	2-3	96% - 5%	
Legrand	78401	[RLC]	40 - 500W	1-3	96% - 3%		1-3	93% - 3%		1-3	98% - 7%		1-3	97% - 4%	
Legrand	67081	[RL]	40 - 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	2-3	97% - 5%	
Legrand	67082	[RL]	40 - 600 W - Turn		N.A.	N.A.		N.A.	N.A.	3	98% - 5%		2-3	97% - 5%	
Legrand	67083	[RLC]	3 - 400W		N.A.	N.A.	1-3	90% - 3%			N.A.	N.A.	1-2	89% - 3%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	95% - 3%		1-3	95% - 3%		2-3	99% - 6%		1-3	98% - 6%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	88% - 17%		1-3	95% - 3%		1-3	99% - 3%		1-3	96% - 3%	
Legrand	L4402N	[R]	60 - 500W		N.A.	N.A.	2-3	83% - 5%		2-3	97% - 13%		2-3	89% - 6%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	88% - 3%		1-3	90% - 4%			N.A.	N.A.	2-3	93% - 8%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-3	93% - 3%		1-3	92% - 3%		1-3	98% - 3%		1-3	94% - 2%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA	1-3	89% - 3%		1-3	95% - 3%			N.A.	N.A.		N.A.	N.A.
MK - Electric	K1535	[R]	65 - 450 W - Turn		N.A.	N.A.	1-3	80% - 3%		1-3	99% - 6%		1-3	84% - 5%	
MK - Electric	K1501 WHILV	[R]	60 - 500 W - Turn	1-3	85% - 3%		1-3	90% - 3%		1-3	97% - 6%		1-3	90% - 5%	
MK - Electric	K4501 WHILV	[RLC]	180W	1-3	88% - 3%		1-3	83% - 3%		1-3	96% - 7%		1-3	90% - 3%	
MK - Electric	K4500 WHILV	[RLC]	400W	1-3	88% - 3%		1-3	85% - 3%		1-3	95% - 7%		1-3	90% - 3%	
NIKO	310-0280X	[LED]	2 - 100 VA	1-3	98% - 4%		1-3	95% - 5%		1-3	98% - 3%		1-2	99% - 3%	
PEHA	43IHAN	[RL]	6 - 120W [LED] 6 - 60W	1-3	88% - 4%		1-3	83% - 5%		1-3	98% - 21%		1-3	92% - 3%	
Philips	UID8670	[LED]	2 - 100 VA-LED - Push (3wire)	1-3	86% - 3%		1-3	89% - 3%		1-3	83% - 3%		1-3	89% - 3%	
RELCO	RPO977	[LED]	4-100W							1-3	96% - 4%		1-2	99% - 9%	
RELCO	RM0545	[LED]	4-100W							1-3	98% - 8%		1-2	95% - 4%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-3	93% - 3%		1-3	92% - 3%		1-3	98% - 3%		1-3	94% - 2%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	1-3	93% - 3%		1-3	92% - 3%		1-3	98% - 3%		1-3	94% - 2%	
Schneider	SBD200 (WDE 002299)	[ ]	4 - 400VA - Turn Universal (2wire)	1-3	88% - 3%		1-3	90% - 4%			N.A.	N.A.	2-3	93% - 8%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	93% - 3%		1-3	90% - 4%		1-3	98% - 3%		1-3	94% - 2%	
VADSBO	ED 350	[RC]	50 - 350W	1-3	91% - 5%		1-3	85% - 5%		1-3	99% - 25%		1-3	94% - 8%	
VADSBO	DRS 315	[RC]	50 - 315W		N.A.	N.A.	1-3	93% - 3%	<2		N.A.	N.A.		N.A.	N.A.
VADSBO	DU 250	[RC]	20 - 250W	1-3	88% - 3%	<4	1-3	83% - 3%	<4	1-3	96% - 6%		1-3	90% - 3%	
Varilight	HQ3W	[R]	60-400W	1-3	92% - 3%		1-3	99% - 3%		1-3	96% - 4%		1-3	96% - 3%	
Varilight	ICT401 M	[RC]	20-400W							1-3	97% - 3%		1-3	88% - 2%	
Vimar	20148	[RL]	500W		N.A.	N.A.		N.A.	N.A.	1-3	97% - 5%	<3	1-3	96% - 4%	<2
Vimar	14153	[R]		1-3	98% - 3%		1-3	98% - 3%		2-3	98% - 3%		1-3	95% - 6%	
Vimar	20160	[RC]			N.A.	N.A.	1-3	93% - 3%	<4	2-3	95% - 3%	<2	1-3	96% - 3%	<2
Vimar	20162	[RL]	40 - 300W		N.A.	N.A.		N.A.	N.A.	1-3	98% - 7%	<3	1-3	95% - 9%	<2
IKEA	EO902 - Dim	[R]	25 - 150W	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 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.  
#7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum light level as lab condition.  
#8) Dimmer manufacturers 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

**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	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

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Brand	Type	Type	Load	LED bulbs								
				E27 13 - 75W CR180 A60 Dimmable Warmglow			E27 17 - 100W CR180 A67 Dimmable Warmglow			E27 6-40 W Dimmable		
				NEW			NEW					
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing				
Berker   INSTA	286710	[RC]	20 - 360 W - Turn	1-3	91% - 10%		1-3	83% - 7%		1-3	94% - 3%	
Berker   INSTA	283010	[R]	60 - 400 W - Turn	1-3	76% - 7%		1-3	88% - 8%		1-3	96% - 3%	
Bticino	L4407	[I]	60 - 250 W		N.A.	N.A.	1-3	74% - 8%	<2		N.A.	N.A.
Busch Jaeger   ABB	2200 U - 503	[R]	60 - 400 W - Turn	1-3	77% - 12%		1-3	88% - 12%		1-3	98% - 9%	
Busch Jaeger   ABB	2247 U	[R L]	20 - 500 W - Turn	1-3	75% - 3%		1-3	90% - 4%			N.A.	N.A.
Busch Jaeger   ABB	2250 U	[R]	60 - 600 W - Turn	1-3	79% - 2%		1-3	91% - 3%		1-3	99% - 3%	
Busch Jaeger   ABB	6513 U - 102	[RC]	40 - 420 W - Turn	1-3	75% - 7%		1-3	89% - 7%			98% - 5%	
Busch Jaeger   ABB	6523 U	[LED]	2 - 100 VA-LED - Turn	1-3	88% - 3%		1-3	86% - 3%		1-3	94% - 3%	
Busch Jaeger   ABB	6526 U	[LED]	2 - 100 VA-LED - Push (2wire)	1-3	95% - 8%		1-3	95% - 8%		1-3	91% - 13%	
ELKO   Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	77% - 9%		1-3	84% - 9%		3	91% - 3%	
ELKO   Schneider	SBD315RC (315 GLE)	[RC]	315W	1-3	89% - 3%		1-3	84% - 3%		1-3	93% - 3%	
ELKO   Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	1-3	77% - 5%		1-3	86% - 5%		1-3	91% - 3%	
Eltako	EVD61NPN-UC		400W 3-wire Push Module	1-3	99% - 6%		1-3	99% - 4%				
Feller   Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	77% - 9%		1-3	84% - 9%		3	91% - 3%	
Feller   Schneider	40300 (SBD315)	[RLC]	300W	1-3	89% - 3%		1-3	84% - 3%		1-3	93% - 3%	
Feller   Schneider	40420 (SBD420)	[RLC]	420W	1-3	77% - 5%		1-3	86% - 5%		1-3	91% - 3%	
GIRA	1176-00/O1	[RLC]	50 - 420W	1-3	95% - 14%		1-3	92% - 12%		1-3	93% - 15%	
GIRA	2390 00/ 100	[LED]	7 - 100W - Push (3wire)	1-3	69% - 16%		1-3	84% - 18%		1-3	94% - 3%	
Hager	EVN 011	[RC]	300VA	1-3	96% - 11%		1-3	97% - 6%		1-3	97% - 3%	
Hager	EVN 012	[RC]	300W	1-3	96% - 11%		1-3	99% - 9%		1-3	97% - 3%	
Hager	EVN 004	[RL]	500VA	1-3	98% 10%		1-3	99% 10%		1-3	97% - 3%	
Jung	225 TDE	[RC]	20 - 525 W - Turn	1-3	90% - 11%		1-3	85% - 8%		1-3	92% - 8%	
Jung	1271LEDDE	[LED]	3 - 100W - Push (3wire)	1-3	90% - 6%		1-3	84% - 4%		1-3	95% - 3%	
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	1-2	79% - 15%		1	82% - 16%		1-3	84% - 12%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	1-3	96% - 7%		1-3	84% - 7%				
Legrand	774161	[RL]	40 - 400 W - Turn	2-3	78% - 5%		2-3	92% - 6%			N.A.	N.A.
Legrand	78401	[RLC]	40 - 500W	1-3	96% - 7%		1-3	91% - 6%		1-3	93% - 3%	
Legrand	67081	[RL]	40 - 400 W - Turn	2-3	77% - 5%		1-3	94% - 7%			N.A.	N.A.
Legrand	67082	[RL]	40 - 600 W - Turn	2-3	75% - 5%		2-3	90% - 6%			N.A.	N.A.
Legrand	67083	[RLC]	3 - 400W	1	85% - 4%		1-3	79% - 4%			N.A.	N.A.
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	76% - 5%		1-3	91% - 6%			98% - 3%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	79% - 3%		1-3	93% - 3%			96% - 3%	
Legrand	L4402N	[R]	60 - 500W	2-3	85% - 13%		1-3	81% - 11%			N.A.	N.A.
Merten   Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	77% - 9%		1-3	84% - 9%		3	91% - 3%	
Merten   Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-3	89% - 3%		1-3	84% - 3%		1-3	93% - 3%	
Merten   Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA	1-3	77% - 5%		1-3	86% - 5%		1-3	91% - 3%	
MK - Electric	K1535	[R]	65 - 450 W - Turn	1-3	66% - 7%		1-3	75% - 7%		1-3	82% - 3%	
MK - Electric	K1501 WHILV	[R]	60 - 500 W - Turn	1-3	71% - 6%		1-3	81% - 6%		1-3	89% - 3%	
MK - Electric	K4501 WHILV	[RLC]	180W	1-3	84% - 7%		1-3	87% - 7%		1-3	87% - 3%	
MK - Electric	K4500 WHILV	[RLC]	400W	1-3	87% - 7%		1-3	87% - 7%		1-3	87% - 3%	
NIKO	310-0280X	[LED]	2 - 100 VA	1-2	99% - 3%		1	98% - 2%		1-3	96% - 4%	
PEHA	431HAN	[RL]	6 - 120W [LED] 6 - 60W	1-3	82% - 5%		1	85% - 5%		1-3	85% - 12%	
Philips	UID8670	[LED]	2 - 100 VA-LED - Push (3wire)	1-3	88% - 3%		1-3	86% - 3%		1-3	94% - 3%	
RELCO	RP0977	[LED]	4-100W	1-2	99% - 14%		1	98% - 17%				
RELCO	RM0545	[LED]	4-100W	1-2	90% - 6%		1	89% - 6%				
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-3	89% - 3%		1-3	84% - 3%		1-3	93% - 3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	1-3	89% - 3%		1-3	84% - 3%		1-3	93% - 3%	
Schneider	SBD200 (WDE 002299)	[I]	4 - 400VA - Turn Universal (2wire)	1-3	77% - 9%		1-3	84% - 9%		3	91% - 3%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	89% - 3%		1-3	84% - 3%		1-3	93% - 3%	
VADSBO	ED 350	[RC]	50 - 350W	1-3	87% - 13%		1-3	82% - 11%		1-3	89% - 16%	
VADSBO	DRS 315	[RC]	50 - 315W	1-3	92% - 9%	<4	1-3	94% - 8%	<4	1-3	92% - 3%	
VADSBO	DU 250	[RC]	20 - 250W	1-3	85% - 5%	<4	1-3	79% - 4%	<4	1-3	87% - 3%	
Varilight	HQ3W	[R]	60-400W	1-3	74% - 5%		1-3	87% - 5%		1-3	95% - 3%	
Varilight	ICT401 M	[RC]	20-400W	1-3	83% - 7%		1-3	91% - 3%				
Vimar	20148	[RL]	500W	1-2	78% - 5%	<4	1-3	89% - 6%	<4		N.A.	N.A.
Vimar	14153	[R]		1-3	97% - 3%		1-3	98% - 3%		1-3	99% - 3%	
Vimar	20160	[RC]		1-3	96% - 4%	<4	1-3	88% - 4%	<4		N.A.	N.A.
Vimar	20162	[RL]	40 - 300W	1-2	75% - 5%	<4	1-3	87% - 5%	<4	1-3	95% - 5%	
IKEA	EO902 - Dim	[R]	25 - 150W	1-3	79% - 7%		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 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 lightsources. (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.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore 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

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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	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

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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	[R L]	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)(CCTO11533)	[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%	

- 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
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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	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

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		Classic LED bulbs													
		E27 A60 4.5W - 40W Dimmable WarmGlow			E27 A60 7.5W - 60W Dimmable WarmGlow			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			E27 6.5 - 40W G200 GOLD DIM / 6.5 - 40W A160 GOLD DIM / 6.5 - 40W T65 GOLD DIM				
											NEW				
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker   INSTA	286710	[RC]	20 - 360 W - Turn	1-3	87% - 3%		1-3	98% - 4%		1-3	98% - 3%		1-3	87% - 15%	
Berker   INSTA	283010	[R]	60 - 400 W - Turn	1-3	90% - 3%		1-3	95% - 3%		2-3	97% - 3%		1-2	93% - 7%	
Btticino	L4407	[ ]	60 - 250 W		N.A.	N.A.		N.A.	N.A.					N.A.	N.A.
Busch Jaeger   ABB	2200 U - 503	[R]	60 - 400 W - Turn	1-3	93% - 3%		1-3	94% - 5%		1-3	98% - 8%		1-3	97% - 13%	
Busch Jaeger   ABB	2247 U	[R L]	20 - 500 W - Turn	1-3	90% - 3%		1-3	95% - 3%		1-3	98% - 3%		1-3	92% - 3%	
Busch Jaeger   ABB	2250 U	[R]	60 - 600 W - Turn	1-3	92% - 3%		1-3	95% - 3%		1-3	97% - 3%		1-2	91% - 12%	
Busch Jaeger   ABB	6513 U - 102	[RC]	40 - 420 W - Turn	1-3	94% - 8%		1-3	96% - 5%		1-3	99% - 3%		1-3	92% - 13%	
Busch Jaeger   ABB	6523 U	[LED]	2 - 100 VA-LED - Turn	1-3	86% - 3%		1-3	89% - 3%		1-3	97% - 3%		1-3	84% - 16%	
Busch Jaeger   ABB	6526 U	[LED]	2 - 100 VA-LED - Push (2wire)	1-3	91% - 4%		1-3	88% - 5%		1-3	93% - 3%		1-3	98% - 15%	
ELKO   Schneider	SBD200LED (CCTELI0501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	88% - 3%		1-3	90% - 4%		2-3	99% - 3%		1-3	91% - 16%	
ELKO   Schneider	SBD315RC (315 GLE )	[RC]	315W	1-3	93% - 3%		1-3	92% - 3%		2-3	98% - 3%		1-3	91% - 3%	
ELKO   Schneider	SBD420RCRL (CCTELI3011)	[RLC]	420W	1-3	89% - 3%		1-3	95% - 3%			N.A.	N.A.	3	94% - 17%	
Eltako	EVD61NPN-UC		400W 3-wire Push Module							1-3	91% - 3%		1-3	99% - 7%	
Feller   Schneider	40200 (SBD200LED CCTCHI0601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	88% - 3%		1-3	90% - 4%		2-3	99% - 3%		1-3	91% - 16%	
Feller   Schneider	40300 (SBD315)	[RLC]	300W	1-3	93% - 3%		1-3	92% - 3%		2-3	98% - 3%		1-3	91% - 3%	
Feller   Schneider	40420 (SBD420)	[RLC]	420W	1-3	89% - 3%		1-3	95% - 3%			N.A.	N.A.	3	94% - 17%	
GIRA	1176-00/01	[RLC]	50 - 420W	1-3	93% - 5%		1-3	88% - 5%		1-3	99% - 3%		1-3	98% - 28%	
GIRA	2390 00/ 100	[LED]	7 - 100W - Push (3wire)	1-3	86% - 3%		1-3	91% - 3%					1-3	83% - 4%	
Hager	EVN 011	[RC]	300VA	1-3	98% - 3%		1-3	93% - 3%		1-3	92% - 3%		1-3	99% - 19%	
Hager	EVN 012	[RC]	300W	1-3	98% - 3%		1-3	93% - 3%		1-3	92% - 3%		1-3	99% - 19%	
Hager	EVN 004	[RL]	500VA	1-3	98% - 3%		1-3	93% - 3%		1-3	92% - 3%		1-3	99% - 20%	
Jung	225 TDE	[RC]	20 - 525 W - Turn	1-3	93% - 3%		1-3	96% - 5%		1-3	98% - 3%		1-3	89% - 17%	
Jung	1271LEDDE	[LED]	3 - 100W - Push (3wire)	1-3	87% - 7%		1-3	91% - 7%		1-3	97% - 3%		1-3	83% - 4%	
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	1-3	82% - 4%		1-3	83% - 5%		1-3	86% - 4%		1-3	87% - 30%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer							1-3	92% - 3%		1-3	90% - 11%	
Legrand	774161	[RL]	40 - 400 W - Turn			N.A.			N.A.	2-3	98% - 3%		3	95% - 9%	
Legrand	78401	[RLC]	40 - 500W	1-3	96% - 3%		1-3	93% - 3%		1-3	91% - 3%		1-3	97% - 10%	
Legrand	67081	[RL]	40 - 400 W - Turn		N.A.	N.A.		N.A.	N.A.			N.A.			
Legrand	67082	[RL]	40 - 600 W - Turn		N.A.	N.A.		N.A.	N.A.	2-3	97% - 3%				
Legrand	67083	[RLC]	3 - 400W		N.A.	N.A.	1-3	90% - 3%		1-3	90% - 3%		1-3	88% - 6%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	95% - 3%		1-3	95% - 3%		1-3	97% - 3%		2-3	92% - 8%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	88% - 17%		1-3	95% - 3%		1-3	97% - 3%		1-3	93% - 3%	
Legrand	L4402N	[R]	60 - 500W		N.A.	N.A.	2-3	83% - 5%		2-3	88% - 3%		2-3	85% - 20%	
Merten   Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	88% - 3%		1-3	90% - 4%		2-3	99% - 3%		1-3	91% - 16%	
Merten   Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-3	93% - 3%		1-3	92% - 3%		2-3	98% - 3%		1-3	91% - 3%	
Merten   Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA	1-3	89% - 3%		1-3	95% - 3%			N.A.	N.A.	3	94% - 17%	
MK - Electric	K1535	[R]	65 - 450 W - Turn		N.A.	N.A.	1-3	80% - 3%		2-3	93% - 3%		1	68% - 12%	
MK - Electric	K1501 WHILV	[R]	60 - 500 W - Turn	1-3	85% - 3%		1-3	90% - 3%		1-3	98% - 3%		1-2	84% - 8%	
MK - Electric	K4501 WHILV	[RLC]	180W	1-3	88% - 3%		1-3	83% - 3%		1-3	98% - 3%		1-3	87% - 12%	
MK - Electric	K4500 WHILV	[RLC]	400W	1-3	88% - 3%		1-3	85% - 3%		1-3	92% - 3%		1-3	88% - 12%	
NIKO	310-O280X	[LED]	2 - 100 VA	1-3	98% - 4%		1-3	95% - 5%		1-3	91% - 3%		1-3	96% - 2%	
PEHA	431HAN	[RL]	6 - 120W [LED] 6 - 60W	1-3	88% - 4%		1-3	83% - 5%		1-3	97% - 3%		1-3	89% - 4%	
Philips	UID8670	[LED]	2 - 100 VA-LED - Push (3wire)	1-3	86% - 3%		1-3	89% - 3%		1-3	97% - 3%		1-3	84% - 16%	
RELCO	RPO977	[LED]	4-100W							1-3	98% - 3%		1-3	98% - 4%	
RELCO	RM0545	[LED]	4-100W							1-3	92% - 3%		1-3	91% - 10%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-3	93% - 3%		1-3	92% - 3%		2-3	98% - 3%		1-3	91% - 3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	1-3	93% - 3%		1-3	92% - 3%		2-3	98% - 3%		1-3	91% - 3%	
Schneider	SBD200 (WDE O02299)	[ ]	4 - 400VA - Turn Universal (2wire)	1-3	88% - 3%		1-3	90% - 4%		2-3	99% - 3%		1-3	91% - 16%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	93% - 3%		1-3	90% - 4%		2-3	98% - 3%		1-3	91% - 3%	
VADSBO	ED 350	[RC]	50 - 350W	1-3	91% - 5%		1-3	85% - 5%		1-3	98% - 3%		1-3	93% - 25%	
VADSBO	DRS 315	[RC]	50 - 315W		N.A.	N.A.	1-3	93% - 3%	<2		N.A.	N.A.		N.A.	N.A.
VADSBO	DU 250	[RC]	20 - 250W	1-3	88% - 3%	<4	1-3	83% - 3%	<4	1-3	84% - 3%		1-3	89% - 4%	
Varilight	HQ3W	[R]	60-400W	1-3	92% - 3%		1-3	99% - 3%		2-3	97% - 3%		1-3	89% - 5%	
Varilight	ICT401 M	[RC]	20-400W							1-3	75% - 3%		1-3	88% - 9%	
Vimar	20148	[RL]	500W		N.A.	N.A.		N.A.	N.A.	1-3	98% - 3%		1-3	94% - 8%	
Vimar	14153	[R]		1-3	98% - 3%		1-3	98% - 3%		1-3	89% - 3%		1-3	99% - 4%	
Vimar	20160	[RC]			N.A.	N.A.	1-3	93% - 3%	<4	1-3	91% - 3%		1-3	99% - 5%	
Vimar	20162	[RL]	40 - 300W		N.A.	N.A.		N.A.	N.A.	1-3	98% - 3%		1-3	93% - 5%	
IKEA	E0902 - Dim	[R]	25 - 150W	1-3	91% - 1%		1-3	93% - 1%		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)
  - #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.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum light level as lab condition.
  - #8) Dimmer manufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products.  
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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	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

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Brand	Type	Type	Load	LED candle / LED lustre								
				E14/E27 4 - 25W Dimmable WarmGlow			E14 / E27 6 - 40W Dimmable WarmGlow			E14 8 - 60W B40 / 6 - 40W P48 Dimmable WarmGlow		
				Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W - Turn	2-18	96% – 3%		2-12	93% – 3%		2-12	90% – 3%	
Berker  INSTA	283010	[R]	60 – 400 W - Turn	2-20	89% – 3%		2-13	89% – 3%				
Bticino	L4407	[I]	60 – 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger  ABB	2200 U - 503	[R]	60 – 400 W - Turn	2-20	92% – 3%		2-13	92% – 3%				
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W - Turn	2-25	91% – 3%		2-17	91% – 3%				
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W - Turn	2-30	88% – 3%		2-20	93% – 3%		2-15	92% – 3%	
Busch Jaeger  ABB	6513 U - 102	[RC]	40 – 420 W - Turn	2-21	94% – 3%		2-14	91% – 3%		2-14	91% – 3%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED - Turn	2-20	84% – 3%		2-17	83% – 3%		2-15	88% – 3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)	2-20	88% – 7%	<4	2-17	88% – 5%	<6	2-17	99% – 3%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-20	95% – 3%		2-13	92% – 3%		2-13	90% – 3%	
ELKO  Schneider	SBD315RC (315 GLE)	[RC]	315W	2-15	88% – 3%		2-11	87% – 0%		2-11	90% – 3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	2-20	91% – 3%		2-14	90% – 3%				
Eltako	EVD61NPN-UC		400W 3-wire Push Module							2-13	99% – 3%	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-20	95% – 3%		2-13	92% – 3%		2-13	90% – 3%	
Feller  Schneider	40300 (SBD315)	[RLC]	300W	2-15	88% – 3%		2-11	87% – 0%		2-11	90% – 3%	
Feller  Schneider	40420 (SBD420)	[RLC]	420W	2-20	91% – 3%		2-14	90% – 3%				
GIRA	1176-00/O1	[RLC]	50 – 420W	2-20	95% – 7%	<7	2-14	95% – 5%	<9	2-14	99% – 4%	
GIRA	2390 00/ 100	[LED]	7 – 100W - Push (3wire)	2-25	94% – 3%		2-17	92% – 3%				
Hager	EVN 011	[RC]	300VA		95% – 4%	<7	2-10	96% – 3%	<10	2-10	99% – 3%	
Hager	EVN 012	[RC]	300W		95% – 4%	<7	2-10	95% – 3%	<10	2-10	99% – 3%	
Hager	EVN 004	[RL]	500VA		95% – 7%	<7	2-17	96% – 4%	<11	2-10	99% – 3%	
Jung	225 TDE	[RC]	20 – 525 W - Turn	2-26	89% – 3%		2-18	89% – 3%		2-10	89% – 3%	
Jung	1271LEDDE	[LED]	3 – 100W - Push (3wire)	2-25	93% – 4%		2-17	92% – 3%		2-15	90% – 3%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W		78% – 7%	<6	2-4	77% – 4%	<5	2-4	88% – 3%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer							2-10	94% – 3%	
Legrand	774161	[RL]	40 – 400 W - Turn		N.A.	N.A.		N.A.	N.A.			
Legrand	78401	[RLC]	40 – 500W	2-20	95% – 4%	<7	2-13	93% – 4%	<9	2-13	99% – 3%	
Legrand	67081	[RL]	40 – 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 – 600 W - Turn		N.A.	N.A.		N.A.	N.A.			
Legrand	67083	[RLC]	3 – 400W		N.A.	N.A.		N.A.	N.A.	2-5	87% – 3%	
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)		N.A.	N.A.		N.A.	N.A.			
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)	2-15	94% – 3%		2-10	91% – 3%		2-10	95% – 3%	
Legrand	L4402N	[R]	60 – 500W		79% – 4%		8-17	79% – 4%		3-17	90% – 3%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-20	95% – 3%		2-13	92% – 3%		2-13	90% – 3%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-15	88% – 3%		2-11	87% – 3%		2-11	90% – 3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	2-20	91% – 3%		2-14	90% – 3%				
MK - Electric	K1535	[R]	65 – 450 W - Turn	2-23	79% – 3%		2-15	77% – 3%		2-15	80% – 3%	
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn	2-25	88% – 3%		2-17	87% – 3%		2-15	80% – 3%	
MK - Electric	K4501 WHILV	[RLC]	180W		83% – 3%		2-7	82% – 3%		2-7	90% – 3%	
MK - Electric	K4500 WHILV	[RLC]	400W		83% – 3%			N.A.	N.A.	2-13	84% – 3%	
NIKO	310-0280X	[LED]	2 – 100 VA	2-5	96% – 5%		2-3	96% – 4%		2-3	99% – 3%	
PEHA	43IHAN	[RL]	6 – 120W [LED] 6 – 60W		82% – 7%		2-4	82% – 5%		2-4	89% – 3%	
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)	2-20	84% – 3%		2-17	83% – 3%		2-15	88% – 3%	
RELCO	RP0977	[LED]	4-100W							2-3	99% – 4%	
RELCO	RM0545	[LED]	4-100W							2-3	96% – 3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-15	88% – 3%		2-11	87% – 3%		2-11	90% – 3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	2-15	88% – 3%		2-11	87% – 3%		2-11	90% – 3%	
Schneider	SBD200 (WDE 002299)	[I]	4 – 400VA - Turn Universal (2wire)	2-20	95% – 3%		2-13	92% – 3%		2-13	90% – 3%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-15	88% – 3%		2-11	87% – 3%		2-11	90% – 3%	
VADSBO	ED 350	[RC]	50 – 350W	2-18	88% – 7%		2-12	84% – 4%		2-12	90% – 3%	
VADSBO	DRS 315	[RC]	50 – 315W	4-16	89% – 4%		5-11	91% – 4%	<12	3-11	80% – 3%	
VADSBO	DU 250	[RC]	20 – 250W	2-13	86% – 3%		2-8	79% – 3%	<8	2-8	85% – 3%	
Varilight	HQ3W	[R]	60-400W	2-20	91% – 3%		2-13	90% – 3%		2-13	90% – 3%	
Varilight	ICT401 M	[RC]	20-400W							2-13	88% – 3%	
Vimar	20148	[RL]	500W	6-25	90% – 3%	<6	4-17	92% – 3%	<4			
Vimar	14153	[R]		2-20	99% – 3%		2-17	96% – 3%	<7	2-17	93% – 3%	
Vimar	20160	[RC]			89% – 3%		2-10	89% – 3%	<11	2-17	96% – 3%	
Vimar	20162	[RL]	40 – 300W	6-15	92% – 3%	<6	4-10	86% – 3%	<4			
IKEA	E0902 - Dim	[R]	25 – 150W									

**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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 #4b) Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%  
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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	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

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Brand	Type	Type	Load	E14 4 - 15W Flame		E14 B35/P45 2.7 - 25W CL / 5 - 40W CL 5 - 35W Gold			
				Dimming Performance	Dimming Range	Dimming Performance	Dimming Range	Glowing	Glowing
Berker  INSTA	286710	[RC]	20 - 360 W - Turn	2-20	89% - 16%	2-8	99% - 3%		
Berker  INSTA	283010	[R]	60 - 400 W - Turn	2-20	93% - 12%	2-8	99% - 3%		
Bticino	L4407	[ ]	60 - 250 W		N.A.	N.A.	N.A.		N.A.
Busch Jaeger  ABB	2200 U - 503	[R]	60 - 400 W - Turn	2-20	94% - 14%	2-8	99% - 12%		
Busch Jaeger  ABB	2247 U	[R L]	20 - 500 W - Turn	2-20	93% - 3%	2-8	99% - 3%		
Busch Jaeger  ABB	2250 U	[R]	60 - 600 W - Turn	2-20	94% - 3%	3-8	99% - 3%		
Busch Jaeger  ABB	6513 U - 102	[RC]	40 - 420 W - Turn	2-20	91% - 15%	2-8	99% - 3%		
Busch Jaeger  ABB	6523 U	[LED]	2 - 100 VA-LED - Turn	2-20	88% - 3%	2-6	99% - 3%		
Busch Jaeger  ABB	6526 U	[LED]	2 - 100 VA-LED - Push (2wire)	2-20	96% - 14%	2-20	97% - 3%		
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-20	89% - 21%	2-8	99% - 3%		
ELKO  Schneider	SBD315RC (315 GLE)	[RC]	315W	2-16	88% - 3%	3-8	99% - 3%		
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	2-20	94% - 5%	3-8	99% - 3%		
Eltako	EVD61NPN-UC		400W 3-wire Push Module	2-20	99% - 5%	2-16	96% - 3%		
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-20	89% - 21%	2-8	99% - 3%		
Feller  Schneider	40300 (SBD315)	[RLC]	300W	2-16	88% - 3%	3-8	99% - 3%		
Feller  Schneider	40420 (SBD420)	[RLC]	420W	2-20	94% - 5%	3-8	99% - 3%		
GIRA	1176-00/01	[RLC]	50 - 420W	2-20	98% - 29%	2-17	97% - 3%		
GIRA	2390 00/ 100	[LED]	7 - 100W - Push (3wire)	2-20	89% - 7%	2-8	99% - 19%		
Hager	EVN 011	[RC]	300VA	2-15	89% - 7%	2-12	96% - 3%		
Hager	EVN 012	[RC]	300W	2-15	97% - 19%	2-12	96% - 3%		
Hager	EVN 004	[RL]	500VA	2-20	98% - 20%	2-20	96% - 3%		
Jung	225 TDE	[RC]	20 - 525 W - Turn	2-20	91% - 19%	2-8	99% - 3%		
Jung	1271LEDDE	[LED]	3 - 100W - Push (3wire)	2-20	90% - 5%	2-8	99% - 3%		
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	2-6	84% - 29%	2-5	93% - 4%		
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer		N.A.	N.A.	2-12	96% - 3%	
Legrand	774161	[RL]	40 - 400 W - Turn		N.A.	N.A.	3-8	99% - 3%	
Legrand	78401	[RLC]	40 - 500W	2-20	96% - 14%	2-16	95% - 3%		
Legrand	67081	[RL]	40 - 400 W - Turn		N.A.	N.A.	3-8	99% - 3%	
Legrand	67082	[RL]	40 - 600 W - Turn		N.A.	N.A.	3-8	99% - 3%	
Legrand	67083	[RLC]	3 - 400W		N.A.	N.A.	2-16	95% - 3%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	2-20	94% - 9%	2-8	99% - 3%		
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	2-20	94% - 9%	2-8	99% - 3%		
Legrand	L4402N	[R]	60 - 500W	5-20	84% - 21%	3-20	95% - 3%		
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-20	89% - 21%	2-8	99% - 3%		
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-16	88% - 3%	3-8	99% - 3%		
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA	2-20	94% - 5%	3-8	99% - 3%		
MK - Electric	K1535	[R]	65 - 450 W - Turn	2-20	80% - 11%	3-8	99% - 3%		
MK - Electric	K1501 WHILV	[R]	60 - 500 W - Turn	3-20	85% - 11%	3-8	99% - 3%		
MK - Electric	K4501 WHILV	[RLC]	180W	2-10	86% - 10%	3-9	96% - 3%		
MK - Electric	K4500 WHILV	[RLC]	400W	2-20	87% - 10%	8-16	96% - 3%		
NIKO	310-0280X	[LED]	2 - 100 VA	2-5	99% - 3%	2-4	94% - 3%		
PEHA	431HAN	[RL]	6 - 120W [LED] 6 - 60W	2-6	86% - 3%	2-5	96% - 3%		
Philips	UID8670	[LED]	2 - 100 VA-LED - Push (3wire)	2-20	88% - 3%	2-6	99% - 3%		
RELCO	RPO977	[LED]	4-100W			2-4	96% - 3%		
RELCO	RM0545	[LED]	4-100W				N.A.		N.A.
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-16	88% - 3%	3-8	99% - 3%		
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	2-16	88% - 3%	3-8	99% - 3%		
Schneider	SBD200 (WDE 002299)	[ ]	4 - 400VA - Turn Universal (2wire)	2-20	89% - 21%	2-8	99% - 3%		
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-16	88% - 3%	3-8	99% - 3%		
VADSBO	ED 350	[RC]	50 - 350W	2-20	89% - 25%	2-14	95% - 3%		
VADSBO	DRS 315	[RC]	50 - 315W	10-16	93% - 15%	3-13	95% - 3%		
VADSBO	DU 250	[RC]	20 - 250W	2-13	84% - 3%	2-10	85% - 3%		
Varilight	HQ3W	[R]	60-400W	2-20	92% - 3%	3-8	99% - 3%		
Varilight	ICT401 M	[RC]	20-400W	2-20	84% - 9%	3-16	90% - 3%		
Vimar	20148	[RL]	500W	2-20	91% - 8%	2-8	99% - 3%		<2
Vimar	14153	[R]		2-20	99% - 3%	5-20	96% - 3%		
Vimar	20160	[RC]		3-20	93% - 3%	2-20	96% - 3%		
Vimar	20162	[RL]	40 - 300W	2-20	89% - 11%	2-8	99% - 3%		<2
IKEA	E0902 - Dim	[R]	25 - 150W	2-8	92% - 12%	2-8	99% - 3%		

- Note :**
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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	Dimming performance: These dimmers require more than 5 lamps as minimum load
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Brand	Type	Load	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	
Berker  INSTA	286710	[RC]	20 - 360 W - Turn	2-8	94% - 8%		2-8	92% - 3%		2-20	91% - 25%		2-15	85% - 19%		2-5	89% - 20%	
Berker  INSTA	283010	[R]	60 - 400 W - Turn	2-8	87% - 3%		2-8	93% - 3%		2-20	95% - 24%		2-15	88% - 19%		2-5	93% - 20%	
Bticino	L4407	[ ]	60 - 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.			
Busch Jaeger  ABB	2200 U - 503	[R]	60 - 400 W - Turn	2-8	86% - 4%		2-8	92% - 3%		2-18	93% - 19%		2-15	89% - 17%		2-5	91% - 17%	
Busch Jaeger  ABB	2247 U	[R L]	20 - 500 W - Turn	2-8	86% - 3%		2-8	94% - 3%		2-20	93% - 10%		2-18	97% - 6%		2-5	93% - 7%	
Busch Jaeger  ABB	2250 U	[R]	60 - 600 W - Turn	2-8	89% - 3%		2-8	94% - 3%		2-20	96% - 7%		2-20	98% - 4%		2-5	95% - 4%	
Busch Jaeger  ABB	6513 U - 102	[RC]	40 - 420 W - Turn	2-8	96% - 4%		2-8	94% - 3%		2-20	94% - 23%		2-15	87% - 20%		2-5	92% - 18%	
Busch Jaeger  ABB	6523 U	[LED]	2 - 100 VA-LED - Turn	2-8	89% - 3%		2-8	89% - 3%		2-20	90% - 2%		2-20	93% - 17%		2-5	88% - 3%	
Busch Jaeger  ABB	6526 U	[LED]	2 - 100 VA-LED - Push (2wire)	2-20	93% - 3%		2-20	94% - 3%		2-20	96% - 24%		2-18	96% - 18%				
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)		N.A.	N.A.	2-8	92% - 3%		2-20	92% - 29%		2-15	85% - 23%		2-5	90% - 24%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	3-8	95% - 3%		2-8	92% - 3%		2-14	91% - 6%		2-11	91% - 5%		2-5	89% - 4%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W		N.A.	N.A.	3-8	95% - 3%		2-19	94% - 14%		2-15	97% - 13%		2-5	95% - 12%	
Eltako	EVD6INPN-UC		400W 3-wire Push Module	2-20	99% - 3%		2-16	99% - 3%		2-14	99% - 15%	< 19	2-15	99% - 14%	< 16			
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)		N.A.	N.A.	2-8	92% - 3%		2-20	92% - 29%		2-15	85% - 23%		2-5	90% - 24%	
Feller  Schneider	40300 (SBD315)	[RLC]	300W	3-8	95% - 3%		2-8	92% - 3%		2-14	91% - 6%		2-11	91% - 5%		2-5	89% - 4%	
Feller  Schneider	40420 (SBD420)	[RLC]	420W		N.A.	N.A.	3-8	95% - 3%		2-19	94% - 14%		2-15	97% - 13%		2-5	95% - 12%	
GIRA	1176-00/01	[RLC]	50 - 420W	2-20	93% - 3%		2-16	94% - 3%		2-19	94% - 36%		2-15	95% - 32%				
GIRA	2390 00/ 100	[LED]	7 - 100W - Push (3wire)	2-8	91% - 3%					2-13	97% - 13%		2-18	90% - 14%		2-5	88% - 36%	
Hager	EVN 011	[RC]	300VA	2-17	98% - 5%		2-12	99% - 3%		2-14	97% - 19%	< 6	2-11	97% - 16%	< 12			
Hager	EVN 012	[RC]	300W	2-17	98% - 5%		2-12	99% - 3%		2-14	98% - 19%	< 5	2-11	97% - 16%	< 12			
Hager	EVN 004	[RL]	500VA	2-17	98% - 5%		2-20	97% - 3%		2-20	98% - 19%		2-18	97% - 16%				
Jung	225 TDE	[RC]	20 - 525 W - Turn	2-8	96% - 8%		2-8	91% - 3%		2-20	92% - 26%		2-15	87% - 22%		2-5	89% - 19%	
Jung	1271LEDDE	[LED]	3 - 100W - Push (3wire)	2-8	91% - 3%		2-8	91% - 3%		2-20	93% - 37%		2-20	88% - 35%		2-5	88% - 11%	
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	2-7	83% - 7%	< 3	2-5	78% - 3%		2-5	88% - 3%		2-4	87% - 37%				
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	2-17	80% - 3%		2-12	89% - 3%		2-14	93% - 3%			N.A.	N.A.			
Legrand	774161	[RL]	40 - 400 W - Turn		N.A.	N.A.	2-8	94% - 3%			N.A.	N.A.		N.A.	N.A.	2-5	94% - 17%	
Legrand	78401	[RLC]	40 - 500W	2-20	95% - 3%		2-16	94% - 3%		2-18	96% - 3%	< 3	2-15	92% - 16%	< 3			
Legrand	67081	[RL]	40 - 400 W - Turn		N.A.	N.A.	3-8	95% - 3%			N.A.	N.A.		N.A.	N.A.	2-5	93% - 15%	
Legrand	67082	[RL]	40 - 600 W - Turn		N.A.	N.A.	3-8	94% - 3%			N.A.	N.A.		N.A.	N.A.	2-5	95% - 17%	
Legrand	67083	[RLC]	3 - 400W	2-20	84% - 3%		2-16	81% - 3%		2-3	89% - 12%			N.A.	N.A.			
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	2-8	96% - 4%	< 3	2-8	93% - 3%		2-18	98% - 20%		2-15	88% - 15%		2-5	93% - 13%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	2-8	99% - 3%		2-8	95% - 3%			N.A.	N.A.	2-11	99% - 3%		2-5	97% - 3%	
Legrand	L4402N	[R]	60 - 500W		N.A.	N.A.	3-20	78% - 3%		8-20	91% - 30%		3-18	86% - 28%				
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)		N.A.	N.A.	2-8	92% - 3%		2-20	92% - 29%		2-15	85% - 23%		2-5	90% - 24%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	3-8	95% - 3%		2-8	92% - 3%		2-14	91% - 6%		2-11	91% - 5%		2-5	89% - 4%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA		N.A.	N.A.	3-8	95% - 3%		2-19	94% - 14%		2-15	97% - 13%		2-5	95% - 12%	
MK - Electric	K1535	[R]	65 - 450 W - Turn		N.A.	N.A.	2-8	70% - 3%		3-20	85% - 20%		2-15	77% - 15%		2-5	81% - 17%	
MK - Electric	K1501 WHILV	[R]	60 - 500 W - Turn	2-8	80% - 3%		2-8	87% - 3%		3-20	89% - 19%		2-18	81% - 17%		2-5	86% - 15%	
MK - Electric	K4501 WHILV	[RLC]	180W	2-13	78% - 3%		2-9	86% - 3%		3-10	89% - 19%		2-8	90% - 19%				
MK - Electric	K4500 WHILV	[RLC]	400W	2-20	77% - 3%		2-16	83% - 3%		3-15	90% - 20%		2-15	88% - 19%				
NIKO	310-0280X	[LED]	2 - 100 VA	2-6	98% - 3%		2-4	97% - 3%		2-5	97% - 8%		2-4	97% - 7%				
PEHA	43IHAN	[RL]	6 - 120W [LED] 6 - 60W	2-3	76% - 3%		2-5	81% - 3%		2-5	89% - 10%		2-4	87% - 10%				
Philips	UID8670	[LED]	2 - 100 VA-LED - Push (3wire)	2-8	89% - 3%		2-8	89% - 3%		2-20	90% - 3%		2-20	93% - 17%		2-5	88% - 3%	
RELCO	RP0977	[LED]	4-100W	2-6	97% - 9%		2-4	97% - 6%										
RELCO	RM0545	[LED]	4-100W	2-6	94% - 3%		2-4	92% - 3%										
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	3-8	95% - 3%		2-8	92% - 3%		2-14	91% - 6%		2-11	91% - 5%		2-5	89% - 4%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	3-8	95% - 3%		2-8	92% - 3%		2-14	91% - 6%		2-11	91% - 5%		2-5	89% - 4%	
Schneider	SBD200 (WDE 002299)	[ ]	4 - 400VA - Turn Universal (2wire)		N.A.	N.A.	2-8	92% - 3%		2-20	92% - 29%		2-15	85% - 23%		2-5	90% - 24%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	3-8	95% - 3%		2-8	92% - 3%		2-14	91% - 6%		2-11	91% - 5%		2-5	89% - 4%	
VADSBO	ED 350	[RC]	50 - 350W	2-20	90% - 7%		2-14	88% - 4%		2-16	93% - 34%		2-13	88% - 29%				
VADSBO	DRS 315	[RC]	50 - 315W		N.A.	N.A.	2-13	93% - 3%		8-14	95% - 24%	< 15	3-11	97% - 21%	< 12			
VADSBO	DU 250	[RC]	20 - 250W	2-14	91% - 3%		2-10	80% - 3%	< 11	2-11	89% - 11%	< 12	2-9	89% - 9%	< 10			
Varilight	HQ3W	[R]	60-400W	2-8	85% - 3%		2-8	93% - 3%		2-18	98% - 14%		2-15	88% - 8%		2-5	91% - 10%	
Varilight	ICT401 M	[RC]	20-400W	2-20	84% - 3%		2-16	86% - 3%		2-18	94% - 10%		2-15	92% - 7%				
Vimar	20148	[RL]	500W	2-8	87% - 3%	< 9	3-8	92% - 3%	< 9	2-20	94% - 17%		2-18	88% - 16%	< 4	2-5	93% - 14%	< 6
Vimar	14153	[R]		2-8	97% - 3%		2-20	94% - 3%		2-20	98% - 3%		2-18	97% - 9%				
Vimar	20160	[RC]		2-20	83% - 3%	< 9	3-20	94% - 3%	< 14	2-14	94% - 13%	< 15	2-18	94% - 12%	< 19			
Vimar	20162	[RL]	40 - 300W	2-8	94% - 4%	< 9	2-8	91% - 3%	< 9	3-13	93% - 14%		2-11	84% - 11%	< 4	2-5	90% - 13%	< 6
IKEA	E0902 - Dim	[R]	25 - 150W	2-8	87% - 3%	< 2	2-6	93% - 3%								2-5	94% - 3%	

- Note :**
- 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)
  - Occupancy sensors can act like dimmers, therefore Philips recommends to use dimmable lamps in combination with it.
  - 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.
  - 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%
  - 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.
  - This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum light level as lab condition.
  - Dimmer manufacturers 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

**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	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*

				Classic LED spot														
				R50 5 - 60W Dimmable			R63 4.5 - 60W Dimmable			PAR20 6 - 50W			PAR30 9.5 - 75W			PAR38 13 - 100W		
Brand	Type	Type	Load	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
Berker   INSTA	286710	[RC]	20 - 360 W - Turn	1-15	89% - 20%		1-5	79% - 3%		1-10	91% - 12%		1-8	93% - 12%		1-5	94% - 13%	
Berker   INSTA	283010	[R]	60 - 400 W - Turn	1-4	94% - 14%		1-5	85% - 14%		1-5	93% - 6%		1-8	96% - 11%		1-5	96% - 12%	
Bticino	L4407	[]	60 - 250 W							N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	
Busch Jaeger   ABB	2200 U - 503	[R]	60 - 400 W - Turn	1-15	91% - 12%		1-5	85% - 6%		1-10	93% - 6%		1-8	95% - 11%		1-8	97% - 57%	
Busch Jaeger   ABB	2247 U	[R L]	20 - 500 W - Turn	1-10	92% - 16%		1-5	85% - 3%		1-14	92% - 3%		1-11	94% - 3%		1-8	95% - 3%	
Busch Jaeger   ABB	2250 U	[R]	60 - 600 W - Turn	2-20	96% - 6%		1-5	85% - 3%		1-8	95% - 3%		1-13	96% - 3%		1-9	96% - 3%	
Busch Jaeger   ABB	6513 U - 102	[RC]	40 - 420 W - Turn	1-15	94% - 18%		1-2	83% - 3%		1-15	92% - 12%		1-9	93% - 12%		1	93% - 12%	
Busch Jaeger   ABB	6523 U	[LED]	2 - 100 VA-LED - Turn	1-20	90% - 2%		1-5	77% - 3%		1-14	93% - 3%		1-11	95% - 3%		1-15	96% - 3%	
Busch Jaeger   ABB	6526 U	[LED]	2 - 100 VA-LED - Push (2wire)							1-17	94% - 10%		1-11	95% - 12%		1-8	93% - 11%	
ELKO   Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-15	89% - 23%		1-5	78% - 3%		1-10	92% - 14%		1-8	92% - 18%		1-5	93% - 15%	
ELKO   Schneider	SBD315RC (315 GLE)	[RC]	315W	1-15	89% - 5%		1-5	77% - 3%		1-9	92% - 4%		1-7	94% - 4%		1-5	94% - 4%	
ELKO   Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	1-15	93% - 12%		3-5	85% - 3%		1-12	94% - 7%		1-9	96% - 7%		N.A.	N.A.	
Ettako	EVD61NPN-UC		400W 3-wire Push Module							1-13	98% - 7%		1-8	95% - 7%		1-6	96% - 8%	
Feller   Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-15	89% - 23%		1-5	78% - 3%		1-10	92% - 14%		1-8	92% - 18%		1-5	93% - 15%	
Feller   Schneider	40300 (SBD315)	[RLC]	300W	1-15	89% - 5%		1-5	77% - 3%		1-9	92% - 4%		1-7	94% - 4%		1-5	94% - 4%	
Feller   Schneider	40420 (SBD420)	[RLC]	420W	1-15	93% - 12%		3-5	85% - 3%		1-12	94% - 7%		1-9	96% - 7%		N.A.	N.A.	
GIRA	1176-00/01	[RLC]	50 - 420W							1-14	96% - 17%		1-9	88% - 7%		N.A.	N.A.	
GIRA	2390 00/ 100	[LED]	7 - 100W - Push (3wire)	1-20	91% - 12%		1-5	79% - 3%		1-10	93% - 3%		1-9	97% - 3%		1-5	94% - 4%	
Hager	EVN 011	[RC]	300VA							1-10	98% - 8%		1-6	96% - 6%		5	97% - 9%	
Hager	EVN 012	[RC]	300W							1-10	98% - 13%		1-6	96% - 14%		5	97% - 14%	
Hager	EVN 004	[RL]	500VA							1-17	98% - 14%		1-11	97% - 14%		8	97% - 14%	
Jung	225 TDE	[RC]	20 - 525 W - Turn	1-20	89% - 22%		N.A.	N.A.		1-15	98% - 13%		1-11	93% - 13%		1-8	92% - 14%	
Jung	1271LEDDE	[LED]	3 - 100W - Push (3wire)	1-20	91% - 34%		1-5	80% - 3%		1-10	92% - 3%		1-10	94% - 3%		1-8	95% - 3%	
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W							1-4	93% - 19%		1-3	89% - 20%		1-2	92% - 21%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer							1-10	58% - 3%		1-6	84% - 3%		1-5	81% - 3%	
Legrand	774161	[RL]	40 - 400 W - Turn		N.A.	N.A.		N.A.	N.A.	2-11	93% - 6%		1-8	96% - 6%		1-6	97% - 7%	
Legrand	78401	[RLC]	40 - 500W							1-13	94% - 7%		5-8	93% - 8%		N.A.	N.A.	
Legrand	67081	[RL]	40 - 400 W - Turn		N.A.	N.A.				2-9	94% - 5%		1-6	96% - 3%		1-5	98% - 7%	
Legrand	67082	[RL]	40 - 600 W - Turn		N.A.	N.A.				2-15	94% - 5%		1-13	96% - 3%		N.A.	N.A.	
Legrand	67083	[RLC]	3 - 400W							1-3	94% - 3%		1-2	89% - 3%		1-6	92% - 3%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	1-15	92% - 14%		1-2	77% - 3%		1-11	93% - 8%		1-8	94% - 3%		N.A.	N.A.	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	1-10	97% - 3%		1-5	93% - 3%		1-9	97% - 3%		1-6	98% - 3%		N.A.	N.A.	
Legrand	L4402N	[R]	60 - 500W							N.A.	N.A.		N.A.	N.A.		2-3	91% - 15%	
Merten   Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-15	89% - 23%		1-5	78% - 3%		1-10	92% - 14%		1-8	92% - 18%		1-5	93% - 15%	
Merten   Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-15	89% - 5%		1-5	77% - 3%		1-9	92% - 4%		1-7	94% - 4%		1-5	94% - 4%	
Merten   Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA	1-15	93% - 12%		3-5	85% - 3%		1-12	94% - 7%		1-9	96% - 7%		N.A.	N.A.	
MK - Electric	K1535	[R]	65 - 450 W - Turn	2-4	82% - 19%		2	62% - 6%		1-13	77% - 7%		1-5	84% - 5%		1-7	88% - 10%	
MK - Electric	K1501 WHILV	[R]	60 - 500 W - Turn	1-20	88% - 17%		3-5	69% - 3%		1-15	96% - 30%		1-7	84% - 5%		1-8	93% - 6%	
MK - Electric	K4501 WHILV	[RLC]	180W							1-7	92% - 5%		1-9	93% - 8%		1-3	92% - 8%	
MK - Electric	K4500 WHILV	[RLC]	400W							1-11	99% - 29%		1-11	93% - 6%		1-6	91% - 6%	
NIKO	310-0280X	[LED]	2 - 100 VA							1-3	96% - 4%		1-2	86% - 4%		1-2	94% - 5%	
PEHA	43IHAN	[RL]	6 - 120W [LED] 6 - 60W							1-4	95% - 3%		1-3	86% - 3%		1-2	91% - 3%	
Philips	UID8670	[LED]	2 - 100 VA-LED - Push (3wire)							1-14	93% - 3%		1-11	95% - 3%		1-15	96% - 3%	
RELCO	RPO977	[LED]	4-100W				1-5	94% - 4%		1-3	99% - 15%		1-2	89% - 13%		1-2	99% - 17%	
RELCO	RM0545	[LED]	4-100W				1-5	74% - 3%		1-3	92% - 8%		1-2	83% - 8%		1-3	93% - 9%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-15	89% - 5%		1-5	77% - 3%		1-9	92% - 4%		1-7	94% - 4%		1-5	94% - 4%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	1-15	89% - 5%		1-5	77% - 3%		1-9	92% - 4%		1-7	94% - 4%		1-5	94% - 4%	
Schneider	SBD200 (WDE 002299)	[]	4 - 400VA - Turn Universal (2wire)	1-15	89% - 23%		1-5	78% - 3%		1-10	92% - 14%		1-8	92% - 18%		1-5	93% - 15%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-15	89% - 5%		1-5	77% - 3%		1-9	92% - 4%		1-7	94% - 4%		1-5	94% - 4%	
VADSBO	ED 350	[RC]	50 - 350W							1-12	93% - 14%		1-7	82% - 13%		1-5	90% - 1%	
VADSBO	DRS 315	[RC]	50 - 315W							1-11	95% - 10%		1-7	90% - 10%		1-5	94% - 11%	
VADSBO	DU 250	[RC]	20 - 250W							1-14	96% - 17%		1-5	88% - 15%		N.A.	N.A.	
Varilight	HQ3W	[R]	60-400W	1-15	94% - 13%		2	84% - 3%		1-8	91% - 5%		1-8	95% - 4%		1-6	94% - 5%	
Varilight	ICT401 M	[RC]	20-400W							1-13	94% - 5%		1-8	89% - 5%		1-6	93% - 5%	
Vimar	20148	[RL]	500W	2-20	92% - 16%	< 21	1-2	84% - 3%		1-14	92% - 4%		1-11	97% - 3%		1-8	95% - 5%	
Vimar	14153	[R]								1-15	99% - 3%		1-11	89% - 3%		1-8	96% - 3%	
Vimar	20160	[RC]								1-10	95% - 3%		1-6	90% - 3%		1-8	92% - 3%	
Vimar	20162	[RL]	40 - 300W	1-10	90% - 12%	< 11	1-3	77% - 3%		1-9	91% - 7%		1-6	96% - 8%		1-5	35% - 7%	
IKEA	E0902 - Dim	[R]	25 - 150W	1-3	94% - 16%		1-5	87% - 12%		2-5	94% - 9%		1-3	92% - 3%		1-2	98% - 14%	

- Note :**
- 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)
  - Occupancy sensors can act like dimmers, therefore Philips recommends to use dimmable lamps in combination with it.
  - 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.
  - Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming
  - 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)
  - Yellow cells indication: Dimming range, minimum dim level with the indicated dimmer will be somewhere between 10%-30%
  - 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.
  - This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum lightlevel as labcondition.
  - 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

**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	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	LED capsule								
				G9 2.5-25W Dimmable			R75 (118mm) 14-100W Dimmable			R75 (118mm) 14-120W Dimmable		
				Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker  INSTA	286710	[RC]	20 – 360 W-Turn	3-20	96% – 27%		1	89% – 8%		1	94% – 21%	
Berker  INSTA	283010	[R]	60 – 400 W-Turn	3-20	86% – 23%		1	94% – 3%		1	97% – 16%	
Bticino	L4407	[ ]	60 – 250 W		N.A.	N.A.					N.A.	N.A.
Busch Jaeger  ABB	2200 U-503	[R]	60 – 400 W-Turn	3-20	85% – 33%		1	91% – 23%		1	98% – 27%	
Busch Jaeger  ABB	2247 U	[R L]	20 – 500 W-Turn	3-20	83% – 9%		1	93% – 3%		1	96% – 3%	
Busch Jaeger  ABB	2250 U	[R]	60 – 600 W-Turn	3-20	87% – 6%		1	96% – 3%		1	95% – 15%	
Busch Jaeger  ABB	6513 U-102	[RC]	40 – 420 W-Turn	3-20	98% – 24%		1	93% – 7%		1	97% – 23%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	3-20	92% – 3%		1	88% – 3%		1	92% – 21%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	3-20	97% – 23%	< 7				1	96% – 15%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	3-20	96% – 30%		1	89% – 3%		1	94% – 21%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC]	315W	3-20	95% – 9%		1	88% – 10%		1	93% – 4%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W		N.A.	N.A.					N.A.	N.A.
Eltako	EVD61NPN-UC		400W 3-wire Push Module	3-20	99% – 15%					1-3	97% – 7%	
Feller  Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	3-20	96% – 30%		1	89% – 3%				
Feller  Schneider	40300 (SBD315)	[RLC]	300W									
Feller  Schneider	40420 (SBD420)	[RLC]	420W									
GIRA	1176-00/01	[RLC]	50 – 420W	3-20	96% – 39%	< 12				1-3	93% – 25%	
GIRA	2390 00/ 100	[LED]	7 – 100W-Push (3wire)	3-18	91% – 15%		1	89% / 4%		1	92% – 10%	
Hager	EVN 011	[RC]	300VA	3-20	98% – 18%	< 14				1-3	95% – 16%	
Hager	EVN 012	[RC]	300W	3-20	99% – 28%	< 14				1-3	97% – 17%	
Hager	EVN 004	[RL]	500VA	3-20	99% – 28%	< 15				1-3	99% – 18%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	3-20	96% – 33%		1	90% – 10%		1	94% – 23%	
Jung	1271LEDDE	[LED]	3 – 100W-Push (3wire)	3-20	94% – 3%		1	90% – 3%		1	93% – 9%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W	3-10	86% – 3%	< 11					84% – 30%	
Klik aan Klik uit	ACM 300		300W-3-wire Push LED Dimmer	3-20	33% – 3%	< 10					92% – 10%	
Legrand	774161	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 – 500W	3-20	97% – 3%	< 13				1-3	97% – 11%	
Legrand	67081	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.	1	93% – 30%	
Legrand	67082	[RL]	40 – 600 W-Turn		N.A.	N.A.		N.A.	N.A.	1	92% – 11%	
Legrand	67083	[RLC]	3 – 400W		N.A.	N.A.					88% – 6%	
Legrand	67084	[RLC]	8-300 VA-Push LED (3wire)	3-20	97% – 23%		1	93% – 3%		1	96% – 3%	
Legrand	67085 (078406)	[RLC]	8-300 VA-Push LED (3wire)	3-20	99% – 4%		1	98% – 3%		1	99% – 3%	
Legrand	L4402N	[R]	60 – 500W		N.A.	N.A.				1	87% – 22%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	3-20	96% – 30%		1	89% – 3%				
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	3-20	95% – 9%		1	88% – 10%				
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[ RLC]	20 – 420 VA									
MK-Electric	K1535	[R]	65 – 450 W-Turn	3-20	72% – 19%		1	82% – 10%		1	81% – 15%	
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	3-10	82% – 17%		1	88% – 6%		1	89% – 12%	
MK-Electric	K4501 WHILV	[RLC]	180W		N.A.	N.A.				1-3	90% – 12%	
MK-Electric	K4500 WHILV	[RLC]	400W		N.A.	N.A.				1-3	90% – 13%	
NIKO	310-0280X	[LED]	2 – 100 VA	3-9	98% – 8%					1	98% – 3%	
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	3-10	76% – 4%					1-2	85% – 4%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	3-20	92% – 3%		1	88% – 3%				
RELCO	RPO977	[LED]	4-100W							1	97% – 27%	
RELCO	RM0545	[LED]	4-100W							1	89% – 10%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	3-20	95% – 9%		1	88% – 10%				
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	3-20	95% – 9%							
Schneider	SBD200 (WDE 002299)	[ ]	4 – 400VA-Turn Universal (2wire)	3-20	96% – 30%		1	89% – 3%				
Schneider	SBD315RC (SBD 315)	[RC]	315W	3-20	95% – 9%		1	88% – 10%				
VADSBO	ED 350	[RC]	50 – 350W	5-20	93% – 34%					1-3	99% – 22%	
VADSBO	DRS 315	[RC]	50 – 315W		N.A.	N.A.					N.A.	N.A.
VADSBO	DU 250	[RC]	20 – 250W	3-20	92% – 14%	< 21				1-3	82% – 5%	< 2
Varilight	HQ3W	[R]	60-400W	3-20	85% – 14%		1	93% – 3%		1	95% – 6%	
Varilight	ICT401 M	[RC]	20-400W	3-20	85% – 14%	< 11				1-3	85% – 2%	
Vimar	20148	[RL]	500W		N.A.	N.A.	1	94% – 4%		1	95% – 12%	
Vimar	14153	[R]		3-20	98% – 3%	< 10	1	90% – 5%		1-3	96% – 3%	
Vimar	20160	[RC]			N.A.	N.A.				1-3	95% – 6%	< 2
Vimar	20162	[RL]	40 – 300W	3-20	96% – 18%	< 21				1	94% – 15%	
IKEA	E0902-Dim	[R]	25 – 150W	3-20	96% – 6%		1	93% – 9%		1	95% – 12%	

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