

Professional 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	LED spot															
				Master LEDexpertcolor MV D 3.9-35W GU10 CR97			Master LEDexpertcolor MV D 5.5-50W GU10 CR97			Classic LEDspot MV DimTone 4.5-35W GU10			Classic LEDspot MV DimTone 5-50W GU10						
				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	2-5 (max 18)	88%-7%			2-5 (max 9)	91%-5%			2-18	92%-7%			2-13	92%-6%		
Berker INSTA	283010	[R]	60 - 400 W-Turn	2-5 (max 20)	93%-6%			2-3	95%-5%			2-18	93%-5%			2-15	94%-4%		
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	2-5 (max 20)	83%-17%			2-5 (max 14)	94%-17%			2-18	92%-6%			2-15	96%-5%		
Busch Jaeger [ABB]	2247 U	[RL]	20 - 500 W-Turn	2-5 (max 20)	95%-3%			2-5 (max 14)	93%-3%			2-20	92%-3%			2-18	96%-3%		
Busch Jaeger [ABB]	2250 U	[R]	60 - 600 W-Turn	2-5 (max 25)	93%-3%			2-5 (max 18)	96%-3%			2-20	91%-3%			2-20	97%-3%		
Busch Jaeger [ABB]	6513 U - 102	[RC]	40 - 420 W-Turn	2-5 (max 21)	92%-4%			2-5 (max 15)	94%-6%			2-19	95%-6%			2-15	96%-6%		
Busch Jaeger [ABB]	6523 U	[LED]	2 - 100 VA-LED-Turn	2-5 (max 25)	92%-4%			2-5 (max 18)	91%-3%			2-20	89%-3%			2-18	93%-3%		
Busch Jaeger [ABB]	6526 U	[LED]	2 - 100 VA-LED-Push (2wire)	2-19	92%-3%							2-20	96%-4%			2-18	97%-6%		
ELKO Schneider	SBD200LED (CCTELI0501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-5 (max 10)	89%-11%			2-5 (max 7)	90%-8%			2-18	91%-7%			2-15	97%-4%		
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W	2-5 (max 16)	88%-3%			2-5 (max 11)	91%-3%			2-14	92%-3%						
ELKO Schneider	SBD420RCRL (CCTELI3011)	[RLC]	420W	2-5 (max 21)	94%-3%			2-5 (max 15)	96%-3%			2-19	93%-3%						
Eitako	EV66INPN-UC		400W 3-wire Push Module									2-18	98%-3%			2-15	98%-4%		< 16
Fetler Schneider	40200 (SBD200LED CCTCH0601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-5 (max 10)	89%-11%			2-5 (max 7)	90%-8%			2-18	91%-7%			2-15	97%-4%		
Fetler Schneider	40300 (SBD315)	[RLC]	300W	2-5 (max 16)	88%-3%			2-5 (max 11)	91%-3%										
Fetler Schneider	40420 (SBD420)	[RLC]	420W	2-5 (max 21)	94%-3%			2-5 (max 15)	96%-3%										
GIRA	1176-00/01	[RLC]	50 - 420W	2-19	91%-12%							2-19	96%-10%			2-15	95%-8%		
GIRA	2390 00/100	[LED]	7 - 100W -Push (3wire)	2-5 (max 25)	86%-24%			2-5 (max 18)	91%-25%			2-15	96%-6%			2-16	91%-4%		
Hager	EVN 011	[RC]	300VA	2-15	96%-10%							2-13	98%-3%		< 12	2-11	98%-5%		< 12
Hager	EVN 012	[RC]	300W	2-15	96%-9%							2-13	98%-4%		< 12	2-11	97%-5%		< 12
Hager	EVN 004	[RLC]	500VA	2-19	96%-10%							2-20	98%-1%			2-18	97%-5%		
Jung	225 TDE	[RC]	20 - 525 W-Turn	2-5 (max 26)	91%-3%			2-5 (max 19)	93%-11%			2-20	92%-7%			2-16	93%-7%		
Jung	1271LEDDE	[LED]	3 - 100W -Push (3wire)	2-5 (max 25)	89%-3%			2-5 (max 18)	92%-3%			2-20	89%-11%			2-16	91%-3%		
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	3-6	72%-17%							2-5	88%-3%				N.A.		N.A.
Klik aan Klik uit	ACM 300		300W -3-wire Push LED Dimmer	2-15	89%-3%							2-13	90%-3%			2-11	91%-4%		
Legrand	774161	[RL]	40 - 400 W-Turn	5	95%-3%				N.A.	N.A.			N.A.	N.A.			N.A.		N.A.
Legrand	78401	[RLC]	40 - 500W	2-19	91%-1%							2-18	78%-3%		< 3	2-15	95%-3%		< 3
Legrand	67081	[RL]	40 - 400 W-Turn	3-5 (max 20)	93%-3%			2-5 (max 14)	96%-3%				N.A.	N.A.			N.A.		N.A.
Legrand	67082	[RL]	40 - 600 W-Turn	5	95%-5%			3-5 (max 14)	96%-3%				N.A.	N.A.			N.A.		N.A.
Legrand	67083	[RLC]	3 - 400W	3-4	86%-3%							2-3	90%-1%				N.A.		N.A.
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	2-5 (max 15)	93%-3%			2-5 (max 10)	93%-3%			2-18	94%-4%				N.A.		N.A.
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	2-5 (max 15)	97%-3%			2-5 (max 10)	98%-3%				N.A.	N.A.		2-11	98%-3%		
Legrand	L4402N	[R]	60 - 500W	3-19	86%-11%							10-20	88%-4%			5-18	88%-7%		
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4-400W(RL)	2-5 (max 10)	89%-11%			2-5 (max 7)	90%-8%			2-18	91%-7%			2-15	97%-4%		
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-5 (max 16)	88%-3%			2-5 (max 11)	91%-3%			2-14	92%-3%			2-15	97%-4%		
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA	2-5 (max 21)	94%-3%			2-5 (max 15)	96%-3%			2-19	93%-3%						
MK - Electric	KI535	[R]	65 - 450 W-Turn	2-5 (max 23)	71%-3%			2-5 (max 16)	80%-4%			2-20	83%-4%			2-16	84%-5%		
MK - Electric	KI501 WHILV	[R]	60 - 500 W-Turn	2-5 (max 25)	77%-3%			2-5 (max 18)	87%-3%			2-20	88%-4%			2-16	89%-5%		
MK - Electric	K4501 WHILV	[RLC]	180W	2-11	84%-3%							2-10	90%-2%			2-9	90%-4%		
MK - Electric	K4500 WHILV	[RLC]	400W	2-16	86%-3%							2-14	89%-2%			2-15	89%-4%		
NIKO	310-0280X	[LED]	2 - 100 VA	2-5	96%-3%							2-4	97%-3%			2-4	99%-2%		
PEHA	431HAN	[RL]	6 - 120W [LED] 6 - 60W	2-6	80%-3%							2-5	90%-3%			2-4	88%-3%		
Philips	UID8670	[LED]	2 - 100 VA-LED-Push (3wire)	2-5 (max 25)	92%-4%			2-5 (max 18)	91%-3%			2-20	89%-3%			2-18	93%-3%		
RELCO	RP0977	[LED]	4-100W	2-5	96%-16%														
RELCO	RM0545	[LED]	4-100W	2-5	88%-3%														
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-5 (max 16)	88%-3%			2-5 (max 11)	91%-3%			2-14	92%-3%						
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	2-5 (max 16)	88%-3%			2-5 (max 11)	91%-3%			2-14	92%-3%						
Schneider	SBD200 (WDE 002299)		4 - 400VA-Turn Universal (2wire)	2-5 (max 10)	89%-11%			2-5 (max 7)	90%-8%			2-18	91%-7%			2-15	97%-4%		
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-5 (max 16)	88%-3%			2-5 (max 11)	91%-3%			2-14	92%-3%			2-11	92%-3%		
VADSBO	ED 350	[RC]	50 - 350W	2-18	86%-10%							2-16	92%-6%			2-13	91%-8%		
VADSBO	DRS 315	[RC]	50 - 315W	2-16	92%-5%							8-14	95%-4%		< 15	3-11	93%-6%		< 12
VADSBO	DU 250	[RC]	20 - 250W	2-13	70%-3%							2-11	89%-3%			2-9	85%-3%		< 10
Varilight	HQ3W	[R]	60-400W	2-5 (max 20)	91%-3%			2-5 (max 14)	92%-3%			3-18	91%-3%			2-15	96%-3%		
Varilight	IC1401 M	[RC]	20-400W	2-19	75%-3%							2-18	95%-1%			2-15	93%-2%		
Vimar	20148	[RL]	500W	2-5 (max 25)	93%-3%		< 6	2-5 (max 18)	94%-3%		< 5	2-20	93%-4%		< 4	2-16	95%-4%		< 17
Vimar	14153	[R]		2-19	99%-3%							2-20	98%-3%			2-18	99%-3%		
Vimar	20160	[RC]		2-15	90%-3%							2-13	94%-1%		< 14	2-18	96%-3%		< 17
Vimar	20162	[RL]	40 - 300W	2-5 (max 15)	91%-3%		< 6	2-5 (max 10)	90%-3%		< 6	2-13	91%-3%		< 10	2-11	90%-4%		< 12
Philips Dyalite	DDLE801		(100W per channel)	2-5	79%-3%			2-5	90%-3%							5-16	92%-3%		
Philips Dyalite	DDTMO2 Module		(460 W per channel)	2-5 (max 20)	87%-3%			2-5 (max 16)	90%-3%							2-16	92%-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 recommend 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 will be >10%, and/or maximum level will be <80% lightlevel
- 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
- 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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				LED spot											
				Classic LEDspot MV 4.4-50W GU10			Classic LEDspot MV 5.5-50W GU10			MASTER VALUE LEDspot MV DimTone D 3.7-35W GU10 CR190			MASTER VALUE LEDspot MV DimTone D 4.9-50W GU10 CR190		
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	2-20	91% – 25%		2-15	85% – 19%		2-8 (max 19)	94% – 6%		2-8 (max 14)	92% – 3%	
Berker INSTA	283010	[R]	60 – 400 W-Turn	2-20	95% – 24%		2-15	88% – 19%		2-8 (max 21)	87% – 3%		2-8 (max 16)	93% – 3%	
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	2-18	93% – 19%		2-15	89% – 17%		2-8 (max 21)	86% – 4%		2-8 (max 16)	92% – 3%	
Busch Jaeger [ABB	2247 U	[RL]	20 – 500 W-Turn	2-20	93% – 10%		2-18	97% – 6%		2-8 (max 21)	86% – 3%		2-8 (max 16)	94% – 3%	
Busch Jaeger [ABB	2250 U	[R]	60 – 600 W-Turn	2-20	96% – 7%		2-20	98% – 4%		2-8 (max 27)	89% – 3%		2-8 (max 20)	94% – 3%	
Busch Jaeger [ABB	6513 U-102	[RC]	40 – 420 W-Turn	2-20	94% – 23%		2-15	87% – 20%		2-8 (max 22)	86% – 4%		2-8 (max 17)	94% – 3%	
Busch Jaeger [ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	2-20	90% – 2%		2-20	93% – 17%		2-8 (max 27)	89% – 3%		2-8 (max 20)	89% – 3%	
Busch Jaeger [ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	2-20	96% – 24%		2-18	95% – 18%		2-20	95% – 6%		2-20	91% – 5%	
ELKO Schneider	SBD200LED (CCTELI0501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-20	92% – 29%		2-15	85% – 23%			N.A.	N.A.	2-8	92% – 3%	
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W	2-14	91% – 6%		2-11	91% – 5%		3-8 (max 17)	95% – 3%		2-8 (max 12)	92% – 3%	
ELKO Schneider	SBD420RCRL (CCTELI3011)	[RLC]	420W	2-19	94% – 14%		2-15	97% – 13%			N.A.	N.A.	3-8 (max 17)	95% – 3%	
Eitako	EVD6INPN-UC		400W 3-wire Push Module	2-14	99% – 15%	<19	2-15	99% – 14%	<16	2-20	94% – 10%		2-16	96% – 3%	
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-20	92% – 29%		2-15	85% – 23%			N.A.	N.A.	2-8	92% – 3%	
Feller Schneider	40300 (SBD315)	[RLC]	300W							3-8 (max 17)	95% – 3%		2-8 (max 12)	92% – 3%	
Feller Schneider	40420 (SBD420)	[RLC]	420W								N.A.	N.A.	3-8 (max 17)	95% – 3%	
GIRA	1176-00/01	[RLC]	50 – 420W	2-19	94% – 36%		2-15	95% – 32%		2-20	94% – 11%		2-17	94% – 9%	
GIRA	2390 00/100	[LED]	7 – 100W-Push (3wire)	2-13	97% – 13%		2-18	90% – 14%		3-8 (max 27)	90% – 3%		3-8 (max 20)	91% – 3%	
Hager	EVN 011	[RC]	300VA	2-14	97% – 19%	<6	2-11	97% – 16%	<12	2-16	98% – 8%		2-12	94% – 7%	
Hager	EVN 012	[RC]	300W	2-14	98% – 19%	<5	2-11	97% – 16%	<12	2-16	98% – 8%		2-12	94% – 7%	
Hager	EVN 004	[RL]	500VA	2-20	98% – 19%		2-18	97% – 16%		2-20	98% – 8%		2-20	95% – 7%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	2-20	92% – 26%		2-15	87% – 22%		2-8 (max 28)	96% – 3%		2-8 (max 21)	91% – 3%	
Jung	1271LEDDE	[LED]	3 – 100W-Push (3wire)	2-20	93% – 37%		2-20	88% – 35%		2-8 (max 27)	91% – 3%		2-8 (max 20)	91% – 3%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W	2-5	88% – 3%		2-4	87% – 37%		2-6	84% – 11%		2-5	80% – 11%	
Klik aan Klik uit	ACM 300		300W 3-wire Push LED Dimmer	2-14	93% – 3%			N.A.	N.A.	2-16	99% – 3%		2-12	87% – 3%	
Legrand	774161	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	2-8 (max 16)	95% – 3%	<4
Legrand	78401	[RLC]	40 – 500W	2-18	96% – 3%	<3	2-15	92% – 16%	<3	2-20	93% – 4%		2-16	91% – 3%	
Legrand	67081	[RL]	40 – 400 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8 (max 16)	95% – 3%	
Legrand	67082	[RL]	40 – 600 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8 (max 24)	94% – 3%	
Legrand	67083	[RLC]	3 – 400W	2-3	89% – 12%			N.A.	N.A.	2-20	89% – 3%		2-16	85% – 2%	
Legrand	67084	[RLC]	8–300 VA –Push LED (3wire)	2-18	98% – 20%		2-15	88% – 15%		2-8 (max 16)	96% – 4%	<3	2-8 (max 12)	93% – 3%	<4
Legrand	67085 (078406)	[RLC]	8–300 VA –Push LED (3wire)		N.A.	N.A.	2-11	99% – 3%		2-8 (max 16)	99% – 3%		2-8 (max 12)	95% – 3%	
Legrand	L4402N	[R]	60 – 500W	8-20	91% – 30%		3-18	86% – 28%		3-20	87% – 10%		2-20	84% – 8%	
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)	2-20	92% – 29%		2-15	85% – 23%			N.A.	N.A.	2-8	92% – 3%	
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-14	91% – 6%		2-11	91% – 5%		3-8 (max 17)	95% – 3%		2-8 (max 12)	92% – 3%	
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA	2-19	94% – 14%		2-15	97% – 13%			N.A.	N.A.	3-8 (max 17)	95% – 3%	
Mk-Electric	K1535	[R]	65 – 450 W-Turn	3-20	85% – 20%		2-15	77% – 15%		2-8 (max 24)	52% – 3%		2-8 (max 18)	70% – 3%	
Mk-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	3-20	89% – 19%		2-18	81% – 17%		2-8 (max 27)	80% – 3%		2-8 (max 20)	87% – 3%	
Mk-Electric	K4501 WHILV	[RLC]	180W	3-10	89% – 19%		2-8	80% – 19%		2-12	86% – 4%		2-9	86% – 4%	
Mk-Electric	K4500 WHILV	[RLC]	400W	3-15	90% – 20%		2-15	88% – 19%		2-20	86% – 5%		2-13	86% – 4%	
NIKO	310-0280X	[LED]	2 – 100 VA	2-5	97% – 8%		2-4	97% – 7%		2-5	99% – 3%		2-4	95% – 3%	
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	2-5	89% – 10%		2-4	87% – 10%		2-6	85% – 3%		2-5	84% – 3%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	2-20	90% – 3%		2-20	93% – 17%		2-8 (max 27)	89% – 3%		2-8 (max 20)	89% – 3%	
RELCO	RP0977	[LED]	4-100W							2-5	99% – 13%		2-4	75% – 11%	
RELCO	RM0545	[LED]	4-100W							2-5	90% – 10%		2-4	87% – 4%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-14	91% – 6%		2-11	91% – 5%		3-8 (max 17)	95% – 3%		2-8 (max 12)	92% – 3%	
Schneider	SBD315RC (ATD315)(CCT015133)	[RC]	315W	2-14	91% – 6%		2-11	91% – 5%		3-8 (max 17)	95% – 3%		2-8 (max 12)	92% – 3%	
Schneider	SBD200 (WDE 002299)		4 – 400VA-Turn Universal (2wire)	2-20	92% – 29%		2-15	85% – 23%			N.A.	N.A.	2-8	92% – 3%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-14	91% – 6%		2-11	91% – 5%		3-8 (max 17)	95% – 3%		2-8 (max 12)	92% – 3%	
VADSBO	ED 350	[RC]	50 – 350W	2-16	93% – 34%		2-13	88% – 29%		2-20	88% – 10%		2-14	85% – 8%	
VADSBO	DRS 315	[RC]	50 – 315W	8-14	95% – 24%	<15	3-11	97% – 21%	<12	3-17	93% – 6%		2-13	90% – 5%	
VADSBO	DU 250	[RC]	20 – 250W	2-11	89% – 11%	<12	2-9	89% – 9%	<10	2-14	84% – 3%		2-10	77% – 3%	<11
Varilight	HQ3W	[R]	60-400W	2-18	98% – 14%		2-15	88% – 8%		2-8 (max 21)	85% – 3%		2-8 (max 16)	92% – 3%	
Varilight	IC1401 M	[RC]	20-400W	2-18	94% – 10%		2-15	92% – 7%		2-20	84% – 3%		2-16	79% – 3%	
Vimar	20148	[RL]	500W	2-20	94% – 17%		2-18	88% – 16%	<4	2-8 (max 27)	87% – 3%		3-8 (max 20)	92% – 3%	<9
Vimar	14153	[R]		2-20	98% – 3%		2-18	97% – 9%		2-20	99% – 3%		2-20	97% – 3%	
Vimar	20160	[RC]		2-14	94% – 13%	<15	2-18	94% – 12%	<19	2-20	86% – 5%		2-12	89% – 3%	<13
Vimar	20162	[RL]	40 – 300W	3-13	93% – 14%		2-11	84% – 11%	<4	2-8 (max 16)	94% – 4%	<8	2-8 (max 12)	92% – 3%	<9
Philips Dynalite	DDLE801		(100W per channel)				2-18	88% – 9%		2-8	90% – 3%		2-8	89% – 3%	
Philips Dynalite	DDTM02 Module		(460 W per channel)				2-16	90% – 3%		2-8 (max 24)	94% – 3%		2-8 (max 18)	89% – 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 light sources. (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. 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
 #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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Professional 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	LED spot													
				MASTER VALUE LEDspot MV Dim D 3.7-35W GU10 CR190			MASTER VALUE LEDspot MV Dim D 4.9-50W GU10 CR190			MASTER VALUE LEDspot MV Dim D 7-80W GU10			MASTER VALUE LEDspot MV 3.5-35W GU10				
				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	2-5 (max 19)	96% – 31%			2-5 (max 14)	93% – 26%			2-5	89% – 20%	2-21	92% – 22%		
Berker INSTA	283010	[R]	60 – 400 W-Turn	2-5 (max 21)	88% – 16%			2-5 (max 16)	98% – 23%			2-5	93% – 20%	2-23	95% – 14%		
Bticino	L4407		60 – 250 W			N.A.				N.A.	N.A.				N.A.	N.A.	
Busch Jaeger ABB	2200 U-503	[R]	60 – 400 W-Turn	3-5 (max 21)	88% – 31%			2-5 (max 16)	92% – 34%			2-5	91% – 17%	2-23	95% – 17%	< 2	
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W-Turn	2-5 (max 21)	87% – 6%			2-5 (max 16)	93% – 9%			2-5	93% – 7%	2-29	95% – 3%		
Busch Jaeger ABB	2250 U	[R]	60 – 600 W-Turn	2-5 (max 27)	91% – 4%			2-5 (max 20)	98% – 5%			2-5	95% – 4%	2-34	95% – 3%		
Busch Jaeger ABB	6513 U-102	[RC]	40 – 420 W-Turn	2-5 (max 22)	98% – 23%			2-5 (max 17)	96% – 21%			2-5	92% – 18%	2-24	96% – 22%		
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA-LED-Turn	2-5 (max 27)	90% – 3%			2-5 (max 20)	93% – 3%			2-5	88% – 3%	2-20	90% – 3%		
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	2-20	92% – 17%	< 5		2-20	95% – 16%			2-5	95% – 12%	2-20	87% – 33%	< 3	
ELKO Schneider	SBD200.ED (CCTELI0501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)			N.A.		2-5	93% – 28%			2-5	90% – 24%	2-23	91% – 23%		
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W	3-5 (max 17)	96% – 9%			2-5 (max 12)	94% – 7%			2-5	89% – 4%	2-18	94% – 5%		
ELKO Schneider	SBD420RCRL (CCTELI3011)	[RLC]	420W			N.A.		2-5 (max 17)	97% – 15%			2-5	95% – 12%		N.A.	N.A.	
Eitako	EV06INPN-UC		400W 3-wire Push Module	2-20	98% – 11%			2-16	99% – 10%								
Feller Schneider	40200 (SBD200.ED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)			N.A.		2-5	93% – 28%			2-5	90% – 24%	2-23	91% – 23%		
Feller Schneider	40300 (SBD315)	[RLC]	300W	3-5 (max 17)	96% – 9%			2-5 (max 12)	94% – 7%			2-5	89% – 4%				
Feller Schneider	40420 (SBD420)	[RLC]	420W			N.A.		2-5 (max 17)	97% – 15%			2-5	95% – 12%				
GIRA	1176-00/01	[RLC]	50 – 420W	2-20	90% – 29%	< 9		2-17	93% – 27%					2-20	96% – 31%		
GIRA	2390 00/100	[LED]	7 – 100W –Push (3wire)	3-8 (max 27)	91% – 15%	< 3		2-5 (max 20)	91% – 14%			2-5	88% – 36%	2-29	91% – 10%	< 2	
Hager	EVN 011	[RC]	300VA	2-16	96% – 22%	< 10		2-12	98% – 21%					2-17	96% – 13%	< 3	
Hager	EVN 012	[RC]	300W	2-16	96% – 22%	< 11		2-12	97% – 21%					2-17	98% – 13%	< 3	
Hager	EVN 004	[RL]	500VA	2-20	95% – 22%	< 11		2-20	99% – 21%					2-20	98% – 16%	< 19	
Jung	225 TDE	[RC]	20 – 525 W-Turn	2-5 (max 28)	94% – 33%			2-5 (max 21)	93% – 28%			2-5	89% – 10%	2-30	94% – 25%		
Jung	1271LEDDE	[LED]	3 – 100W –Push (3wire)	2-5 (max 27)	89% – 13%			2-5 (max 20)	93% – 13%			2-5	88% – 11%	2-29	91% – 38%	< 2	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W			< 7		2-5	84% – 32%					2-7	84% – 29%	< 3	
Klik aan Klik uit	ACM 300		300W –3-wire Push LED Dimmer			< 7		2-5	90% – 14%								
Legrand	774161	[RL]	40 – 400 W-Turn			N.A.		N.A.	N.A.	N.A.		2-5	94% – 17%		N.A.	N.A.	
Legrand	78401	[RLC]	40 – 500W	2-20	91% – 14%			2-16	93% – 11%	< 3				2-20	93% – 13%	< 5	
Legrand	67081	[RL]	40 – 400 W-Turn			N.A.		N.A.	N.A.	N.A.		2-5	93% – 15%		N.A.	N.A.	
Legrand	67082	[RL]	40 – 600 W-Turn			N.A.		N.A.	N.A.	N.A.		2-5	95% – 17%		N.A.	N.A.	
Legrand	67083	[RLC]	3 – 400W			83% – 11%			96% – 10%								
Legrand	67084	[RLC]	8–300 VA –Push LED (3wire)	2-5 (max 16)	96% – 22%	< 5		2-5 (max 12)	95% – 18%	< 3		2-5	93% – 13%	2-23	90% – 6%	< 4	
Legrand	67085 (078406)	[RLC]	8–300 VA –Push LED (3wire)	2-5 (max 16)	97% – 3%			2-5 (max 12)	98% – 3%			2-5	97% – 3%	2-17	97% – 3%		
Legrand	L4402N	[R]	60 – 500W	5-20	88% – 28%			2-20	93% – 28%					10-20	84% – 24%		
Merten Schneider	SBD200.ED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)			N.A.		2-5	93% – 28%			2-5	90% – 24%	2-23	91% – 23%		
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	3-5 (max 17)	96% – 9%			2-5 (max 12)	94% – 7%			2-5	89% – 4%	2-18	94% – 5%		
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA			N.A.		2-5 (max 17)	97% – 15%			2-5	95% – 12%		N.A.	N.A.	
Mk-Electric	K1535	[R]	65 – 450 W-Turn	2-8 (max 24)	71% – 15%			2-8 (max 18)	85% – 19%			2-5	81% – 17%	2-26	83% – 12%		
Mk-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	2-8 (max 27)	79% – 17%			2-8 (max 20)	91% – 18%			2-5	86% – 15%	2-10	88% – 14%		
Mk-Electric	K4501 WHILV	[RLC]	180W	2-12	83% – 15%			2-9	86% – 15%					3-13	87% – 13%		
Mk-Electric	K4500 WHILV	[RLC]	400W	2-17	87% – 15%			2-13	87% – 15%						87% – 13%		
NIKO	310-0280X	[LED]	2 – 100 VA	2-5	96% – 6%			2-4	96% – 5%					2-6	98% – 24%		
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	2-6	84% – 6%			2-5	86% – 7%					2-7	87% – 31%		
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	2-5 (max 27)	90% – 3%			2-5 (max 20)	93% – 3%			2-5	88% – 3%	2-20	90% – 3%		
RELCO	RP0977	[LED]	4-100W	2-5	97% – 32%			2-4	97% – 29%								
RELCO	RM0545	[LED]	4-100W	2-5	88% – 15%			2-4	89% – 14%								
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	3-5 (max 17)	96% – 9%			2-5 (max 12)	94% – 7%			2-5	89% – 4%	2-18	94% – 5%		
Schneider	SBD315RC (ATD315)(CCT015133)	[RC]	315W	3-5 (max 17)	96% – 9%			2-5 (max 12)	94% – 7%			2-5	89% – 4%	2-18	94% – 5%		
Schneider	SBD200 (WDE 002299)		4 – 400VA-Turn Universal (2wire)			N.A.		2-5	93% – 28%			2-5	90% – 24%	2-23	91% – 23%		
Schneider	SBD315RC (SBD 315)	[RC]	315W	3-5 (max 17)	96% – 9%			2-5 (max 12)	94% – 7%			2-5	89% – 4%	2-18	94% – 5%		
VADSBO	ED 350	[RC]	50 – 350W	2-19	89% – 29%			2-14	87% – 25%					2-20	91% – 29%		
VADSBO	DRS 315	[RC]	50 – 315W	3-17	92% – 18%	< 18		2-13	93% – 17%	< 14				10-18	93% – 20%		
VADSBO	DU 250	[RC]	20 – 250W	3-14	83% – 9%	< 15		2-10	83% – 7%	< 11				2-14	89% – 20%		
Varilight	HQ3W	[R]	60-400W	2-5 (max 21)	84% – 8%			2-5 (max 16)	97% – 11%			2-5	91% – 10%	2-23	92% – 8%		
Varilight	IC1401 M	[RC]	20-400W	2-20	83% – 3%	< 7		2-16	84% – 3%								
Vimar	20148	[RL]	500W	3-8 (max 27)	85% – 17%	< 6		3-5 (max 20)	95% – 17%	< 6		2-5	93% – 14%	< 6	2-29	95% – 16%	< 30
Vimar	14153	[R]				97% – 4%			99% – 3%						98% – 3%		
Vimar	20160	[RC]				91% – 11%	< 17	2-12	95% – 9%	< 13				2-17	91% – 9%		
Vimar	20162	[RL]	40 – 300W	3-8 (max 16)	92% – 25%	< 6		2-5 (max 12)	94% – 18%	< 6		2-5	90% – 13%	< 6	2-17	91% – 13%	< 18
Philips Dynalite	DDLE801		(100W per channel)	2-8	88% – 8%			2-8	93% – 9%			2-5	88% – 8%	2-20	91% – 9%		
Philips Dynalite	DDTMO2 Module		(460 W per channel)	2-8 (max 24)	92% – 3%			2-8 (max 18)	95% – 5%			2-5	90% – 4%	2-20	93% – 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)
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Professional 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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				LED spot											
				MASTER VALUE LEDspot MV 5-50W GU10			Corepro LEDspot MV 4-35W GU10 Dim			Corepro LEDspot MV 5-50W GU10 Dim			Master LEDspot PAR Classic D 6-50W PAR20		
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	2-10	90% - 20%		2-8	94%-8%		2-8	92%-3%		1-10	91%-12%	
Berker INSTA	283010	[R]	60 - 400 W-Turn	2-10	94% - 8%		2-8	87%-3%		2-8	93%-3%		1-5	93%-6%	
Blicino	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	2-10	94% - 16%	< 2	2-8	86%-4%		2-8	92%-3%		1-10	93%-6%	
Busch Jaeger ABB	2247 U	[RL]	20 - 500 W-Turn	2-10	92% - 3%		2-8	86%-3%		2-8	94%-3%		1-8	92%-3%	
Busch Jaeger ABB	2250 U	[R]	60 - 600 W-Turn	2-10	92% - 3%		2-8	89%-3%		2-8	94%-3%		1-8	95%-3%	
Busch Jaeger ABB	6513 UL-102	[RC]	40 - 420 W-Turn	2-10	96% - 20%		2-8	96%-4%		2-8	94%-3%		1-15	92%-12%	
Busch Jaeger ABB	6523 U	[LED]	2 - 100 VA-LED-Turn	2-10	92% - 3%		2-8	89%-3%		2-8	89%-3%		1-14	93%-3%	
Busch Jaeger ABB	6526 U	[LED]	2 - 100 VA-LED-Push (2wire)	2-20	89% - 29%		2-20	93%-3%		2-20	94%-3%		1-17	94%-10%	
ELKO Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-10	88% - 20%			N.A.	N.A.	2-8	92%-3%		1-10	92%-14%	
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W	2-10	88% - 3%		3-8	95%-3%		2-8	92%-3%		1-9	92%-4%	
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W		N.A.	N.A.		N.A.	N.A.	3-8	95%-3%		1-12	94%-7%	
Eitako	EVD6INPM-UC		400W 3-wire Push Module				2-20	99%-3%		2-16	99%-3%		1-13	98%-7%	
Feller Schneider	40200 (SBD200LED CCTH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-10	88% - 20%			N.A.	N.A.	2-8	92%-3%		1-10	92%-14%	
Feller Schneider	40300 (SBD315)	[RLC]	300W				3-8	95%-3%		2-8	92%-3%		1-9	92%-4%	
Feller Schneider	40420 (SBD420)	[RLC]	420W					N.A.	N.A.	3-8	95%-3%		1-12	94%-7%	
GIRA	1176-00/01	[RLC]	50 - 420W	2-20	94% - 27%		2-20	93%-3%		2-16	94%-3%		1-14	96%-17%	
GIRA	2390 00/ 100	[LED]	7 - 100W -Push (3wire)	2-10	92% - 8%		2-8	91%-3%					1-10	93%-3%	
Hager	EVN 011	[RC]	300VA	2-14	98% - 13%	< 2	2-17	98%-5%		2-12	99%-3%		1-10	98%-8%	
Hager	EVN D12	[RC]	300W	2-14	98% - 13%	< 7	2-17	98%-5%		2-12	99%-3%		1-10	98%-13%	
Hager	EVN 004	[RL]	500VA	2-20	98% - 13%	< 8	2-17	98%-5%		2-20	97%-3%		1-17	98%-14%	
Jung	225 TDE	[RC]	20 - 525 W-Turn	2-10	92% - 24%		2-8	96%-8%		2-8	91%-3%		1-15	98%-13%	
Jung	1271LEDDE	[LED]	3 - 100W -Push (3wire)	2-10	92% - 36%		2-8	91%-3%		2-8	91%-3%		1-10	92%-3%	
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	2-6	81% - 28%	< 7	2-7	83%-7%	< 3	2-5	78%-3%		1-4	93%-19%	
Klik aan Klik uit	ACM 300		300W -3-wire Push LED Dimmer				2-17	80%-3%		2-12	89%-3%		1-10	58%-3%	
Legrand	774161	[RL]	40 - 400 W-Turn	3-10	92% - 8%	< 4		N.A.	N.A.	2-8	94%-3%		2-11	93%-6%	
Legrand	78401	[RLC]	40 - 500W	2-19	93% - 13%		2-20	95%-3%		2-16	94%-3%		1-13	94%-7%	
Legrand	67081	[RL]	40 - 400 W-Turn	3-10	96% - 16%			N.A.	N.A.	3-8	95%-3%		2-9	94%-5%	
Legrand	67082	[RL]	40 - 600 W-Turn		N.A.	N.A.		N.A.	N.A.	3-8	94%-3%		2-15	94%-5%	
Legrand	67083	[RLC]	3 - 400W		89% - 10%		2-20	84%-3%		2-16	81%-3%		1-3	94%-3%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	2-10	88% - 3%	< 5	2-8	96%-4%	< 3	2-8	93%-3%		1-11	93%-8%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	2-10	96% - 3%		2-8	99%-3%		2-8	95%-3%		1-9	97%-3%	
Legrand	L4402N	[R]	60 - 500W	5-20	83% - 25%			N.A.	N.A.	3-20	78%-3%			N.A.	N.A.
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4-400W(RL)	2-10	88% - 20%			N.A.	N.A.	2-8	92%-3%		1-10	92%-14%	
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-10	88% - 3%		3-8	95%-3%		2-8	92%-3%		1-9	92%-4%	
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA		N.A.	N.A.		N.A.	N.A.	3-8	95%-3%		1-12	94%-7%	
MK-Electric	KI535	[R]	65 - 450 W-Turn	2-10	80% - 14%			N.A.	N.A.	2-8	70%-3%		1-13	77%-7%	
MK-Electric	KI501 WHILV	[R]	60 - 500 W-Turn	2-10	86% - 14%		2-8	80%-3%		2-8	87%-3%		1-15	96%-30%	
MK-Electric	K4501 WHILV	[RLC]	180W	2-10	85% - 13%		2-13	78%-3%		2-9	86%-3%		1-7	92%-5%	
MK-Electric	K4500 WHILV	[RLC]	400W	2-15	85% - 13%		2-20	77%-3%		2-16	83%-3%		1-11	99%-29%	
NIKO	310-Q2BOX	[LED]	2 - 100 VA	2-5	97% - 23%		2-6	98%-3%		2-4	97%-3%		1-3	96%-4%	
PEHA	431HAN	[RL]	6 - 120W (LED) 6 - 60W	2-6	85% - 29%		2-3	76%-3%		2-5	81%-3%		1-4	95%-3%	
Philips	ULD670	[LED]	2 - 100 VA-LED-Push (3wire)	2-10	92% - 3%		2-8	89%-3%		2-8	89%-3%		1-14	93%-3%	
RELCO	RPO977	[LED]	4-100W				2-6	97%-9%		2-4	97%-6%		1-3	99%-15%	
RELCO	RM0545	[LED]	4-100W				2-6	94%-3%		2-4	92%-3%		1-3	92%-8%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-10	88% - 3%		3-8	95%-3%		2-8	92%-3%		1-9	92%-4%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	2-10	88% - 3%		3-8	95%-3%		2-8	92%-3%		1-9	92%-4%	
Schneider	SBD200 (WDE 002299)		4 - 400VA-Turn Universal (2wire)	2-10	88% - 20%			N.A.	N.A.	2-8	92%-3%		1-10	92%-14%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-10	88% - 3%		3-8	95%-3%		2-8	92%-3%		1-9	92%-4%	
VADSBO	ED 350	[RC]	50 - 350W	2-15	88% - 27%		2-20	90%-7%		2-14	88%-4%		1-12	93%-14%	
VADSBO	DRS 315	[RC]	50 - 315W	2-15	93% - 17%	< 11		N.A.	N.A.	2-13	93%-3%		1-11	95%-10%	
VADSBO	DU 250	[RC]	20 - 250W	2-12	83% - 8%	< 11	2-14	91%-3%		2-10	80%-3%	< 11	1-14	96%-17%	
VariLight	HQ3W	[R]	60-400W	2-10	92% - 6%		2-8	85%-3%		2-8	93%-3%		1-8	91%-5%	
VariLight	1CT401 M	[RC]	20-400W				2-20	84%-3%		2-16	86%-3%		1-13	94%-5%	
Vimar	20148	[RL]	500W	3-10	92% - 8%	< 11	2-8	87%-3%	< 9	3-8	92%-3%	< 9	1-14	92%-4%	
Vimar	14153	[R]		2-20	98% - 3%		2-8	97%-3%		2-20	94%-3%		1-15	99%-3%	
Vimar	20160	[RC]		2-14	92% - 8%	< 11	2-20	83%-3%	< 9	3-20	94%-3%	< 14	1-10	95%-3%	
Vimar	20162	[RL]	40 - 300W	2-10	88% - 8%	< 11	2-8	94%-4%	< 9	2-8	91%-3%	< 9	1-9	91%-7%	
Philips Dynalite	DDLE801		(100W per channel)	2-20	88% - 8%		2-8	90%-3%		2-8	89%-3%		1-14	95%-3%	
Philips Dynalite	DDTMI02 Module		(460 W per channel)	2-20	97% - 4%		2-8	94%-3%		2-8	89%-3%		1-13	99%-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 light sources. (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. Therefore we indicated 3% as minimum lightlevel as labcondition.
 #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
 #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.

www.lighting.philips.com/main/products/masterled
www.lighting.philips.com/main/products/coreproledlamps



Professional 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	LED spot											
				Master LEDspot PAR Classic 9.5 - 75W PAR30S			Master LEDspot PAR Classic D 13-100W PAR38			CorePro LEDspot MV 5W-60W R50			CorePro LEDspot MV 4.3-60W R50		
				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	1-8	93%-12%		1-5	94%-13%		2-10	90%-20%		1-15	89% - 20%	
Berker INSTA	283010	[R]	60 - 400 W-Turn	1-8	96%-11%		1-5	96%-12%		2-10	94%-6%		1-4	94% - 14%	
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	1-8	95%-11%		1-8	97%-5.7%		2-10	94%-16%	< 2	1-15	91% - 12%	
Busch Jaeger ABB	2247 U	[RL]	20 - 500 W-Turn	1-11	94%-3%		1-8	95%-3%		2-10	92%-3%		1-10	92% - 16%	
Busch Jaeger ABB	2250 U	[R]	60 - 600 W-Turn	1-13	96%-3%		1-9	96%-3%		2-10	92%-3%		2-20	96% - 6%	
Busch Jaeger ABB	6513 U-I02	[RC]	40 - 420 W-Turn	1-9	93%-12%		1	93%-12%		2-10	96%-20%		1-15	94% - 18%	
Busch Jaeger ABB	6523 U	[LED]	2 - 100 VA-LED-Turn	1-11	95%-3%		1-15	96%-3%		2-10	92%-3%		1-20	90% - 2%	
Busch Jaeger ABB	6526 U	[LED]	2 - 100 VA-LED-Push (2wire)	1-11	95%-12%		1-8	93%-11%		1-16	95%-20%				
ELKO Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-8	92%-18%		1-5	93%-15%		2-10	88%-20%		1-15	89% - 23%	
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W	1-7	94%-4%		1-5	94%-4%		2-10	88%-3%		1-15	89% - 5%	
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W	1-9	96%-7%			N.A.	N.A.		N.A.	N.A.	1-15	93% - 12%	
Eitako	EVD6INPN-UC		400W 3-wire Push Module	1-8	95%-7%		1-6	96%-8%		1-16	97%-12%	< 17			
Fetler Schneider	40200 (SBD200LED CCTCH0601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-8	92%-18%		1-5	93%-15%		2-10	88%-20%		1-15	89% - 23%	
Fetler Schneider	40300 (SBD315)	[RLC]	300W	1-7	94%-4%		1-5	94%-4%					1-15	89% - 5%	
Fetler Schneider	40420 (SBD420)	[RLC]	420W	1-9	96%-7%			N.A.	N.A.				1-15	93% - 12%	
GRA	1176-00/01	[RLC]	50 - 420W	1-9	88%-7%			N.A.	N.A.	1-16	94%-30%				
GRA	2390 00/100	[LED]	7 - 100W -Push (3wire)	1-9	97%-3%		1-5	94%-4%		2-10	92%-8%		1-20	91% - 12%	
Hager	EVN 011	[RC]	300VA	1-6	96%-6%		5	97%-9%		1-12	97%-14%	< 13			
Hager	EVN 012	[RC]	300W	1-6	96%-14%		5	97%-14%		1-12	96%-15%	< 13			
Hager	EVN 004	[RL]	500VA	1-11	97%-14%		8	97%-14%		1-16	97%-15%	< 3			
Jung	225 TDE	[RC]	20 - 525 W-Turn	1-11	93%-13%		1-8	92%-14%		2-10	92%-24%		1-20	89% - 22%	
Jung	1271LEDDDE	[LED]	3 - 100W -Push (3wire)	1-10	94%-3%		1-8	95%-3%		2-10	92%-36%		1-20	91% - 34%	
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	1-3	89%-20%		1-2	92%-21%		1-5	79%-31%				
Klik aan Klik uit	ACM 300		300W -3-wire Push LED Dimmer	1-6	84%-3%		1-5	81%-3%		1-12	87%-14%				
Legrand	774161	[RL]	40 - 400 W-Turn	1-8	96%-6%		1-6	97%-7%		3-10	92%-8%	< 4		N.A.	
Legrand	78401	[RLC]	40 - 500W	5-8	93%-8%			N.A.	N.A.	1-16	95%-14%			N.A.	
Legrand	67081	[RL]	40 - 400 W-Turn	1-6	96%-3%		1-5	98%-7%		3-10	96%-16%			N.A.	
Legrand	67082	[RL]	40 - 600 W-Turn	1-13	96%-3%			N.A.	N.A.		N.A.	N.A.		N.A.	
Legrand	67083	[RLC]	3 - 400W	1-2	89%-3%		1-6	92%-3%		2-16	90%-3%				
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	1-8	94%-3%			N.A.	N.A.	2-10	88%-3%	< 5	1-15	92% - 14%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-6	98%-3%			N.A.	N.A.	2-10	96%-3%		1-10	97% - 3%	
Legrand	L4402N	[R]	60 - 500W		N.A.	N.A.	2-3	91%-15%		2-16	95%-20%				
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4-400W(RL)	1-8	92%-18%		1-5	93%-15%		2-10	88%-20%		1-15	89% - 23%	
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	1-7	94%-4%		1-5	94%-4%		2-10	88%-3%		1-15	89% - 5%	
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA	1-9	96%-7%			N.A.	N.A.		N.A.	N.A.	1-15	93% - 12%	
Mk-Electric	K1535	[R]	65 - 450 W-Turn	1-5	84%-5%		1-7	88%-10%		2-10	80%-14%		2-4	82% - 19%	
Mk-Electric	K1501 WHILV	[R]	60 - 500 W-Turn	1-7	84%-5%		1-8	93%-6%		2-10	86%-14%		1-20	88% - 17%	
Mk-Electric	K4501 WHILV	[RL]	180W	1-9	93%-8%		1-3	92%-8%		1-9	90%-17%				
Mk-Electric	K4500 WHILV	[RLC]	400W	1-11	93%-6%		1-6	91%-6%		1-16	89%-18%				
NIKO	310-0280X	[LED]	2 - 100 VA	1-2	86%-4%		1-2	94%-5%		1-4	86%-6%				
PEHA	431HAN	[RL]	6 - 120W [LED] 6 - 60W	1-3	86%-3%		1-2	91%-3%		1-5	89%-7%				
Philips	UID8670	[LED]	2 - 100 VA-LED-Push (3wire)	1-11	95%-3%		1-15	96%-3%		2-10	92%-3%				
RELCO	RP0977	[LED]	4-100W	1-2	89%-13%		1-2	99%-17%							
RELCO	RM0545	[LED]	4-100W	1-2	83%-8%		1-3	93%-9%							
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-7	94%-4%		1-5	94%-4%		2-10	88%-3%		1-15	89% - 5%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	1-7	94%-4%		1-5	94%-4%		2-10	88%-3%		1-15	89% - 5%	
Schneider	SBD200 (WDE 002299)		4 - 400VA-Turn Universal (2wire)	1-8	92%-18%		1-5	93%-15%		2-10	88%-20%		1-15	89% - 23%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-7	94%-4%		1-5	94%-4%		2-10	88%-3%		1-15	89% - 5%	
VADSBO	ED 350	[RC]	50 - 350W	1-7	82%-13%		1-5	90%-1%		1-14	88%-27%				
VADSBO	DRS 315	[RC]	50 - 315W	1-7	90%-10%		1-5	94%-11%		2-13	95%-19%	< 14			
VADSBO	DU 250	[RC]	20 - 250W	1-5	88%-15%			N.A.	N.A.	1-10	85%-9%	< 11			
Varilight	HQ3W	[R]	60-400W	1-8	95%-4%		1-6	94%-5%		2-10	92%-6%		1-15	94% - 13%	
Varilight	ICT401 M	[RC]	20-400W	1-8	89%-5%		1-6	93%-5%		1-16	89%-6%				
Vimar	20148	[RL]	500W	1-11	97%-3%		1-8	95%-5%		3-10	92%-8%	< 11	2 - 20	92% - 16%	
Vimar	14153	[R]		1-11	89%-3%		1-8	96%-3%		1-16	99%-6%				
Vimar	20160	[RC]		1-6	90%-3%		1-8	92%-3%		2-16	94%-11%	< 17			
Vimar	20162	[RL]	40 - 300W	1-6	96%-8%		1-5	35%-7%		2-10	88%-8%	< 11	1-10	90% - 12%	
Philips Dynalite	DDL E801		(100W per channel)	1-11	93%-3%		1-8	94%-3%					1-20	88% - 9%	
Philips Dynalite	DDTMO2 Module		(460 W per channel)	1-9	96%-3%		1-7	93%-4%					1-20	90% - 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 recommend to use dimmable lamps in combination with it.
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- 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 light sources (e.g. flickering where "active loads" can reduce your problems)
- Yellow cells indication: Dimming range: minimum dim level will be <10%, and/or maximum level will be <80% lightlevel.
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Professional 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	LED spot											
				CorePro LEDspot MV -60W R63			CorePro LEDspot MV 4.5-60W R63			MASTER LEDbulbs clear 6W-40W DimTone			MASTER LEDbulb clear 8.5W-60W DimTone		
				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	2-15	97%-20%		1-5	79%-3%		1-3 (max 12)	87%-3%		1-3 (max 6)	98%-4%	
Berker INSTA	283010	[R]	60 - 400 W-Turn				1-5	85%-14%		1-3 (max 13)	90%-3%		1-3 (max 9)	95%-3%	
Bticino	L4407		60 - 250 W								N.A.	N.A.		N.A.	
Busch Jaeger [ABB]	2200 U-503	[R]	60 - 400 W-Turn	2-15	97%-36%	< 16	1-5	85% - 6%		1-3 (max 13)	93%-3%		1-3 (max 9)	94%-5%	
Busch Jaeger [ABB]	2247 U	[RL]	20 - 500 W-Turn	2-20	98%-3%		1-5	85% - 3%		1-3 (max 13)	90%-3%		1-3 (max 9)	95%-3%	
Busch Jaeger [ABB]	2250 U	[R]	60 - 600 W-Turn	2-20	98%-3%		1-5	85% - 3%		1-3 (max 17)	92%-3%		1-3 (max 11)	95%-3%	
Busch Jaeger [ABB]	6513 U-102	[RC]	40 - 420 W-Turn	2-15	98%-21%		1-2	83% - 3%		1-3 (max 14)	94%-8%		1-3 (max 11)	96%-5%	
Busch Jaeger [ABB]	6523 U	[LED]	2 - 100 VA-LED-Turn	2-20	95%-3%		1-5	77% - 3%		1-3 (max 17)	86%-3%		1-3 (max 11)	89%-3%	
Busch Jaeger [ABB]	6526 U	[LED]	2 - 100 VA-LED-Push (2wire)							1-3 (max 17)	91%-4%		1-3 (max 11)	88%-5%	
ELKO [Schneider]	SBD200.LED (CCTELI0501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-10	99%-26%		1-5	78% - 3%		1-3 (max 6)	88%-3%		1-3 (max 4)	90%-4%	
ELKO [Schneider]	SBD315RC (315 GLE)	[RC]	315W	2-10	97%-3%		1-5	77% - 3%		1-3 (max 11)	93%-3%		1-3 (max 7)	92%-3%	
ELKO [Schneider]	SBD420RCRL (CCTELI301I)	[RLC]	420W		N.A.	N.A.	3-5	85% - 3%		1-3 (max 11)	89%-3%		1-3 (max 7)	95%-3%	
Eitako	EV66INPN-UC		400W 3-wire Push Module												
Feller [Schneider]	40200 (SBD200.LED CCTX10G01)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-10	99%-26%		1-5	78% - 3%		1-3 (max 6)	88%-3%		1-3 (max 4)	90%-4%	
Feller [Schneider]	40300 (SBD315)	[RLC]	300W	2-10	97%-3%		1-5	77% - 3%							
Feller [Schneider]	40420 (SBD420)	[RLC]	420W		N.A.	N.A.	3-5	85% - 3%							
GIRA	1176-00/01	[RLC]	50 - 420W												
GIRA	2390 00/100	[LED]	7 - 100W -Push (3wire)	2-19	95%-7%		1-5	79% - 3%		1-3 (max 14)	93%-5%		1-3 (max 9)	88%-5%	
Hager	EVN 011	[RC]	300VA							1-3 (max 10)	98%-3%		1-3 (max 7)	93%-3%	
Hager	EVN 012	[RC]	300W							1-3 (max 10)	98%-3%		1-3 (max 7)	93%-3%	
Hager	EVN 004	[RL]	500VA							1-3 (max 10)	98%-3%		1-3 (max 7)	93%-3%	
Jung	225 TDE	[RC]	20 - 525 W-Turn	2-20	98%-25%		N.A.	N.A.		1-3 (max 18)	93%-3%		1-3 (max 12)	96%-5%	
Jung	1271.EDDE	[LED]	3 - 100W -Push (3wire)	2-20	96%-46%		1-5	80% - 3%		1-3 (max 17)	87%-7%		1-3 (max 11)	91%-7%	
Klik aan Klik ult	AWMD-250	[LED]	3 - 24W							1-3 (max 4)	82%-4%		1-3 (max 2)	83%-5%	
Klik aan Klik ult	ACM 300		300W -3-wire Push LED Dimmer												
Legrand	774161	[RL]	40 - 400 W-Turn		N.A.	N.A.		N.A.	N.A.			N.A.		N.A.	
Legrand	78401	[RLC]	40 - 500W	3-10	97%-15%					1-3 (max 17)	95%-3%		1-3 (max 11)	93%-3%	
Legrand	67081	[RL]	40 - 400 W-Turn								N.A.	N.A.		N.A.	
Legrand	67082	[RL]	40 - 600 W-Turn	3-20	97%-14%						N.A.	N.A.		N.A.	
Legrand	67083	[RLC]	3 - 400W								N.A.	N.A.	1-3 (max 9)	90%-3%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	2-15	97%-3%		1-2	77% - 3%		1-3 (max 10)	95%-3%		1-3 (max 7)	95%-3%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	2-11	99%-3%		1-5	93% - 3%		1-3 (max 10)	93%-17%		1-3 (max 7)	95%-3%	
Legrand	L4402N	[R]	60 - 500W								N.A.	N.A.	1-3 (max 11)	83%-5%	
Merten [Schneider]	SBD200.LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4-400W(RL)	2-10	99%-26%		1-5	78% - 3%		1-3 (max 6)	88%-3%		1-3 (max 4)	90%-4%	
Merten [Schneider]	SBD315RC (MEG5136-0000)	[RC]	315W	2-10	97%-3%		1-5	77% - 3%		1-3 (max 11)	93%-3%		1-3 (max 7)	92%-3%	
Merten [Schneider]	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA		N.A.	N.A.	3-5	85% - 3%		1-3 (max 14)	89%-3%		1-3 (max 9)	95%-3%	
Mk-Electric	K1535	[R]	65 - 450 W-Turn	2-17	87%-16%		2	62% - 6%			N.A.	N.A.	1-3 (max 10)	80%-3%	
Mk-Electric	K1501 WHILV	[R]	60 - 500 W-Turn	2-19	93%-16%		3-5	69% - 3%		1-3 (max 17)	85%-3%		1-3 (max 11)	90%-3%	
Mk-Electric	K4501 WHILV	[RLC]	180W							1-3 (max 6)	88%-3%		1-3 (max 4)	83%-3%	
Mk-Electric	K4500 WHILV	[RLC]	400W							1-3 (max 13)	88%-3%		1-3 (max 9)	85%-3%	
NIKO	310-0280X	[LED]	2 - 100 VA							1-3 (max 17)	98%-4%		1-3 (max 11)	95%-5%	
PEHA	431HAN	[RL]	6 - 120W [LED] 6 - 60W							1-3 (max 10)	88%-4%		1-3 (max 7)	83%-5%	
Philips	UID8670	[LED]	2 - 100 VA-LED-Push (3wire)	2-20	95%-3%					1-3 (max 17)	86%-3%		1-3 (max 11)	89%-3%	
RELCO	RP0977	[LED]	4-100W				1-5	94% - 4%							
RELCO	RM0545	[LED]	4-100W				1-5	74% - 3%							
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-10	97%-3%		1-5	77% - 3%		1-3 (max 11)	93%-3%		1-3 (max 7)	92%-3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	2-10	97%-3%		1-5	77% - 3%		1-3 (max 11)	93%-3%		1-3 (max 7)	92%-3%	
Schneider	SBD200 (WDE 002299)		4 - 400VA-Turn Universal (2wire)	2-10	99%-26%		1-5	78% - 3%		1-3 (max 13)	88%-3%		1-3 (max 9)	90%-4%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-10	97%-3%		1-5	77% - 3%		1-3 (max 11)	93%-3%		1-3 (max 7)	90%-4%	
VADSBO	ED 350	[RC]	50 - 350W							1-3 (max 12)	91%-5%		1-3 (max 8)	85%-5%	
VADSBO	DRS 315	[RC]	50 - 315W								N.A.	N.A.	1-3 (max 7)	93%-3%	
VADSBO	DU 250	[RC]	20 - 250W							1-3 (max 8)	88%-3%	< 4	1-3 (max 5)	83%-3%	
Varilight	HQ3W	[R]	60-400W	2-15	99%-4%		2	84% - 3%		1-3 (max 13)	92%-3%		1-3 (max 9)	99%-3%	
Varilight	ICT401 M	[RC]	20-400W												
Vimar	20148	[RL]	500W	2-19	96%-13%	< 4	1-2	84% - 3%			N.A.	N.A.		N.A.	
Vimar	14153	[R]								1-3	98%-3%		1-3	98%-3%	
Vimar	20160	[RC]									N.A.	N.A.	1-3	93%-3%	
Vimar	20162	[RL]	40 - 300W	2-11	97%-9%	< 5	1-3	77% - 3%			N.A.	N.A.		N.A.	
Philips Dynalite	DDLEB01		(100W per channel)	2-19	99%-3%		1-5	81% - 3%		1-3	95%-3%		1-3	93%-3%	
Philips Dynalite	DDTM02 Module		(460 W per channel)	2-17	97%-3%		1-5	79% - 3%		1-3	98%-3%		1-3	90%-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: 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 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. 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
 - #9) In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

Disclaimer:
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www.lighting.philips.com/main/products/masterled
www.lighting.philips.com/main/products/coreproledlamps



Professional 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	LED bulb											
				Master LEDbulb 6-40W frosted DimTone			Master ledbulb 8.5-60W frosted DimTone			MASTER LEDbulbs 11W-75W frosted CR80 DimTone			MASTER LEDbulbs 15W-100W frosted CR80 DimTone		
				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	98%-8%		1-3	94%-7%		1-3	87%-10%		1-3	89%-9%	
Berker INSTA	283010	[R]	60 – 400 W-Turn	1-3	98%-7%		1-3	96%-5%		1-3	93%-10%		1-3	91%-9%	
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	97%-19%		1-3	94%-9%		1-3	93%-17%		1-3	91%-22%	
Busch Jaeger [ABB]	2247 U	[RL]	20 – 500 W-Turn	1-3	99%-3%		1-3	95%-3%		1-3	93%-3%		1-3	93%-3%	
Busch Jaeger [ABB]	2250 U	[R]	60 – 600 W-Turn	1-3	97%-3%		1-3	97%-3%		1-3	93%-3%		1-3	93%-3%	
Busch Jaeger [ABB]	6513 U-102	[RC]	40 – 420 W-Turn	1-3	98%-7%		1-3	95%-6%		1-3	93%-10%		1-3	91%-10%	
Busch Jaeger [ABB]	6523 U	[LED]	2 – 100 VA-LED-Turn	1-3	83%-3%		1-3	89%-3%		1-3	87%-3%		1-3	87%-3%	
Busch Jaeger [ABB]	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)	1-3	88%-10%		1-3	97%-6%		1-3	98%-10%		1-3	98%-11%	
ELKO [Schneider]	SBD200L.ED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)		N.A.	N.A.	2-3	93%-8%		1-3	90%-10%		1-3	89%-10%	
ELKO [Schneider]	SBD315RC (315 GLE)	[RC]	315W	1-3	98%-3%		1-3	94%-2%		1-3	87%-3%		1-3	84%-3%	
ELKO [Schneider]	SBD420RCRL (CCTEL13011)	[RLC]	420W		N.A.	N.A.		N.A.	N.A.	1-3	93%-7%		1-3	91%-4%	
Eitako	EVD6INPN-UC		400W 3-wire Push Module	1-3	98%-6%		1-3	99%-3%		1-3	97%-5%		1-3	97%-5%	
Fetler [Schneider]	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)		N.A.	N.A.	2-3	93%-8%		1-3	90%-10%		1-3	89%-10%	
Fetler [Schneider]	40300 (SBD315)	[RLC]	300W	1-3	98%-3%		1-3	94%-2%							
Fetler [Schneider]	40420 (SBD420)	[RLC]	420W		N.A.	N.A.		N.A.	N.A.						
GIRA	1176-00/01	[RLC]	50 – 420W	1-3	99%-19%			N.A.	N.A.	1-3	93%-24%		1-3	93%-24%	
GIRA	2390 00/ 100	[LED]	7 – 100W –Push (3wire)	1-3	97%-21%		1-3	95%-17%		1-3	90%-3%		1-3	87%-4%	
Hager	EVN 011	[RC]	300VA	1-3	98%-8%		1-3	99%-7%		1-3	97%-6%		1-3	97%-6%	
Hager	EVN 012	[RC]	300W	1-3	98%-12%		1-3	99%-6%		1-3	97%-6%		1-3	97%-6%	
Hager	EVN 004	[RL]	500VA	1-3	99%-13%		1-3	99%-6%		1-3	97%-6%		1-3	97%-6%	
Jung	225 TDE	[RC]	20 – 525 W-Turn	1-3	98%-9%		1-3	96%-8%		1-3	90%-10%		1-3	89%-9%	
Jung	1271LEDDDE	[LED]	3 – 100W –Push (3wire)	1-3	97%-4%					1-3	87%-20%		1-3	89%-23%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W		N.A.	N.A.	1-3	89%-8%			N.A.	N.A.		N.A.	N.A.
Klik aan Klik uit	ACM 300		300W –3-wire Push LED Dimmer	2-3	96%-8%		1-3	96%-4%			N.A.	N.A.		N.A.	N.A.
Legrand	774161	[RL]	40 – 400 W-Turn		N.A.	N.A.	2-3	96%-5%			N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 – 500W	1-3	98%-7%		1-3	97%-4%		1-3	94%-7%		1-3	94%-7%	
Legrand	67081	[RL]	40 – 400 W-Turn		N.A.	N.A.	2-3	97%-5%			N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 – 600 W-Turn	3	98%-5%		2-3	97%-5%			N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 – 400W		N.A.	N.A.	1-2	89%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	67084	[RLC]	8–300 VA –Push LED (3wire)	2-3	99%-6%		1-3	98%-6%		1-3	93%-7%			N.A.	N.A.
Legrand	67085 (078406)	[RLC]	8–300 VA –Push LED (3wire)	1-3	99%-3%		1-3	96%-3%		1-3	93%-3%		1-3	91%-3%	
Legrand	L4402N	[R]	60 – 500W	2-3	97%-13%		2-3	89%-6%		1-3	86%-17%		1-3	86%-18%	
Merten [Schneider]	SBD200L.ED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4-400W(RL)		N.A.	N.A.	2-3	93%-8%		1-3	90%-10%		1-3	89%-10%	
Merten [Schneider]	SBD315RC (MEG5136-0000)	[RC]	315W	1-3	98%-3%		1-3	94%-2%		1-3	87%-3%		1-3	84%-3%	
Merten [Schneider]	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA		N.A.	N.A.		N.A.	N.A.	1-3	93%-7%		1-3	91%-4%	
Mk-Electric	K1535	[R]	65 – 450 W-Turn	1-3	99%-6%		1-3	84%-5%		1-3	80%-7%		1-3	82%-9%	
Mk-Electric	K1501 WHILV	[R]	60 – 500 W-Turn	1-3	97%-6%		1-3	90%-5%		1-3	83%-7%			N.A.	N.A.
Mk-Electric	K4501 WHILV	[RLC]	180W	1-3	96%-7%		1-3	90%-3%		1-3	85%-8%		1-3	85%-8%	
Mk-Electric	K4500 WHILV	[RLC]	400W	1-3	95%-7%		1-3	90%-3%		1-3	90%-9%		1-3	90%-9%	
NIKO	310-0280X	[LED]	2 – 100 VA	1-3	98%-3%		1-2	99%-3%							
PEHA	431HAN	[RL]	6 – 120W [LED] 6 – 60W	1-3	98%-21%		1-3	92%-3%		1-3	87%-3%		1-3	87%-3%	
Philips	UID8670	[LED]	2 – 100 VA-LED-Push (3wire)	1-3	83%-3%		1-3	89%-3%		1-3	87%-3%		1-3	87%-3%	
RELCO	RP0977	[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	98%-3%		1-3	94%-2%		1-3	87%-3%		1-3	84%-3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	1-3	98%-3%		1-3	94%-2%		1-3	87%-3%		1-3	84%-3%	
Schneider	SBD200 (WDE 002299)		4 – 400VA-Turn Universal (2wire)		N.A.	N.A.	2-3	93%-8%		1-3	90%-10%		1-3	89%-10%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	98%-3%		1-3	94%-2%		1-3	87%-3%		1-3	84%-3%	
VADSBO	ED 350	[RC]	50 – 350W	1-3	99%-25%		1-3	94%-8%		1-3	84%-23%		1-3	84%-23%	
VADSBO	DRS 315	[RC]	50 – 315W		N.A.	N.A.		N.A.	N.A.	1-3	96%-9%		1-3	96%-9%	
VADSBO	DU 250	[RC]	20 – 250W	1-3	96%-6%		1-3	90%-3%		1-3	87%-3%		1-3	87%-3%	
Varilight	HQ3W	[R]	60-400W	1-3	96%-4%		1-3	96%-3%		1-3	90%-3%		1-3	91%-4%	
Varilight	IC1401 M	[RC]	20-400W	1-3	97%-3%		1-3	88%-2%		1-3	89%-3%		1-3	89%-3%	
Vimar	20148	[RL]	500W	1-3	97%-5%	+3	1-3	96%-4%	+2	1-3	93%-7%		1-3	91%-7%	
Vimar	14153	[R]		2-3	98%-3%		1-3	95%-6%		1-3	98%-3%		1-3	98%-3%	
Vimar	20160	[RC]		2-3	95%-3%	+2	1-3	96%-3%	+2	1-3	92%-4%		1-3	92%-4%	
Vimar	20162	[RL]	40 – 300W	1-3	98%-7%	+3	1-3	95%-9%	+2	1-3	90%-7%		1-3	87%-4%	
Philips Dyalite	DDLE801		(100W per channel)	1-3	96%-3%		1-3	93%-3%		1-3	90%-3%		1-3	89%-4%	
Philips Dyalite	DDTM02 Module		(460 W per channel)	1-3	98%-3%		1-3	95%-3%		1-3	90%-3%		1-3	89%-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 recommend 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 light sources. (e.g. flickering where "active loads" can reduce your problems)
- Yellow cells indication: Dimming range, minimum dim level will be >10%, and/or maximum level will be <80% lightlevel
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- 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.
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- In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

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Professional 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	LED bulb											
				MASTER LEDbulbs 12W-75W frosted CR190 DimTune			MASTER LEDbulbs 15.5W-100W frosted CR190 DimTune			CorePro LEDbulb 6W-40W			CorePro LEDbulb 8.5W-60W		
				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	90% - 8%		1-3	96% - 9%		1-3	94%-3%		1-3	95%-3%	
Berker INSTA	283010	[R]	60 - 400 W-Turn	1-3	92% - 6%		1-3	96% - 9%		1-3	95%-3%		1-3	92%-11%	
Bticino	L4407		60 - 250 W								N.A.	N.A.		N.A.	
Busch Jaeger [ABB]	2200 U-503	[R]	60 - 400 W-Turn	1-3	93% - 10%		1-3	97% - 13%		1-3	98%-9%		1-3	94%-15%	
Busch Jaeger [ABB]	2247 U	[RL]	20 - 500 W-Turn	1-3	93% - 3%		1-3	97% - 3%		1-3	N.A.	N.A.	1-3	95%-3%	
Busch Jaeger [ABB]	2250 U	[R]	60 - 600 W-Turn	1-3	94% - 3%		1-3	99% - 3%		1-3	99%-3%		1-3	92%-3%	
Busch Jaeger [ABB]	6513 U-102	[RC]	40 - 420 W-Turn	1-3	93% - 8%		1-3	95% - 9%		1-3	98%-3%		1-3	92%-4%	
Busch Jaeger [ABB]	6523 U	[LED]	2 - 100 VA-LED-Turn	1-3	89% - 3%		1-3	92% - 3%		1-3	94%-3%		1-3	94%-3%	
Busch Jaeger [ABB]	6526 U	[LED]	2 - 100 VA-LED-Push (2wire)							1-3	91%-13%		1-3	92%-19%	
ELKO [Schneider]	SBD200LED (CCTEL10501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	88% - 9%		1-3	91% - 9%		3	91%-3%		1-3	91%-7%	
ELKO [Schneider]	SBD315RC (315 GLE)	[RC]	315W	1-3	88% - 3%		1-3	89% - 3%		1-3	93%-3%		1-3	98%-3%	
ELKO [Schneider]	SBD420RCRL (CCTEL13011)	[RLC]	420W	1-3	93% - 3%		1-3	92% - 5%		1-3	91%-3%		1-3	93%-3%	
Eitako	EVD6INPN-UC		400W 3-wire Push Module												
Feller [Schneider]	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	88% - 9%		1-3	91% - 9%		3	91%-3%		1-3	91%-7%	
Feller [Schneider]	40300 (SBD315)	[RLC]	300W	1-3	88% - 3%		1-3	89% - 3%							
Feller [Schneider]	40420 (SBD420)	[RLC]	420W	1-3	93% - 3%		1-3	92% - 5%							
GIRA	1176-00/01	[RLC]	50 - 420W							1-3	93%-15%		1-3	93%-13%	
GIRA	2390 00/100	[LED]	7 - 100W -Push (3wire)	1-3	89% - 3%		1-3	87% - 5%		1-3	94%-3%		1-3	99%-3%	
Hager	EVN 011	[RC]	300VA							1-3	97%-3%		1-3	97%-3%	
Hager	EVN 012	[RC]	300W							1-3	97%-3%		1-3	97%-3%	
Hager	EVN 004	[RL]	500VA							1-3	97%-3%		1-3	97%-3%	
Jung	225 TDE	[RC]	20 - 525 W-Turn	1-3	93% - 9%		1-3	95% - 9%		1-3	92%-8%		1-3	93%-7%	
Jung	1271LEDDE	[LED]	3 - 100W -Push (3wire)	1-3	89% - 3%		1-3	90% - 5%		1-3	95%-3%		1-3	93%-3%	
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W							1-3	84%-12%		1-3	87%-20%	
Klik aan Klik uit	ACM 300		300W -3-wire Push LED Dimmer												
Legrand	774161	[RL]	40 - 400 W-Turn	1-3	94% - 4%		1-3	86% - 8%			N.A.	N.A.		N.A.	
Legrand	78401	[RLC]	40 - 500W							1-3	93%-3%		1-3	93%-3%	
Legrand	67081	[RL]	40 - 400 W-Turn								N.A.	N.A.		N.A.	
Legrand	67082	[RL]	40 - 600 W-Turn								N.A.	N.A.		N.A.	
Legrand	67083	[RLC]	3 - 400W								N.A.	N.A.		N.A.	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	1-3	93% - 3%		1-3	90% - 4%			98%-3%			92%-3%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-3	97% - 3%		1-3	98% - 3%			96%-3%			97%-3%	
Legrand	L4402N	[R]	60 - 500W								N.A.	N.A.	2-3	87%-11%	
Merten [Schneider]	SBD200LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4-400W(RL)	1-3	88% - 9%		1-3	91% - 9%		3	91%-3%		1-3	91%-7%	
Merten [Schneider]	SBD315RC (MEG5136-0000)	[RC]	315W	1-3	88% - 3%		1-3	89% - 3%		1-3	93%-3%		1-3	98%-3%	
Merten [Schneider]	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA	1-3	93% - 3%		1-3	92% - 5%		1-3	91%-3%		1-3	93%-3%	
Mk-Electric	K1535	[R]	65 - 450 W-Turn	1-3	80% - 6%		1-3	82% - 8%		1-3	82%-3%		1-3	84%-6%	
Mk-Electric	K1501 WHILV	[R]	60 - 500 W-Turn	1-3	84% - 3%		1-3	88% - 7%		1-3	89%-3%		1-3	92%-3%	
Mk-Electric	K4501 WHILV	[RLC]	180W							1-3	87%-3%		1-3	88%-3%	
Mk-Electric	K4500 WHILV	[RLC]	400W							1-3	87%-3%		1-3	87%-3%	
NIKO	310-0280X	[LED]	2 - 100 VA							1-3	96%-4%		1-3	96%-5%	
PEHA	431HAN	[RL]	6 - 120W [LED] 6 - 60W							1-3	85%-12%		1-3	89%-27%	
Philips	UID8670	[LED]	2 - 100 VA-LED-Push (3wire)							1-3	94%-3%		1-3	94%-3%	
RELCO	RP0977	[LED]	4-100W	1-3	97% - 3%		1-3	94% - 12%							
RELCO	RM0545	[LED]	4-100W	1-3	86% - 3%		1-3	84% - 6%							
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-3	88% - 3%		1-3	89% - 3%		1-3	93%-3%		1-3	98%-3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	1-3	88% - 3%		1-3	89% - 3%		1-3	93%-3%		1-3	98%-3%	
Schneider	SBD200 (WDE 002299)		4 - 400VA-Turn Universal (2wire)	1-3	88% - 9%		1-3	91% - 9%		3	91%-3%		1-3	91%-7%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	88% - 3%		1-3	89% - 3%		1-3	93%-3%		1-3	98%-3%	
VADSBO	ED 350	[RC]	50 - 350W							1-3	89%-16%		1-3	85%-11%	
VADSBO	DRS 315	[RC]	50 - 315W							1-3	92%-3%		1-3	92%-3%	
VADSBO	DU 250	[RC]	20 - 250W							1-3	87%-3%		1-3	83%-3%	
Varilight	HQ3W	[R]	60-400W	1-3	93% - 3%		1-3	96% - 5%		1-3	95%-3%		1-3	95%-3%	
Varilight	IC1401 M	[RC]	20-400W												
Vimar	20148	[RL]	500W	1-3	92% - 3%		1-3	96% - 7%	<4		N.A.	N.A.	1-3	94%-3%	
Vimar	14153	[R]								1-3	99%-3%		1-3	99%-3%	
Vimar	20160	[RC]									N.A.	N.A.	1-3	92%-3%	
Vimar	20162	[RL]	40 - 300W	1-3	88% - 3%		1-3	91% - 5%	<4	1-3	95%-5%		1-3	88%-3%	
Philips Dyalite	DDLE801		(100W per channel)	1-3	86% - 3%		1-3	91% - 4%	<4	1-3	92%-3%		1-3	95%-3%	
Philips Dyalite	DDTM02 Module		(460 W per channel)	1-3	87% - 3%		1-3	92% - 3%	<4	1-3	93%-3%		1-3	93%-3%	

Note:

- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)
- #2) Occupancy sensors can act like dimmers, therefore Philips 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 light sources. (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. 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
- #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.

www.lighting.philips.com/main/products/masterled
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Professional 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
-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	LED spot									
				CorePro LEDbulbs 11.5W-75W			CorePro LEDbulbs 13.5 - 100W A60			CorePro LEDbulbs 16W-100W			
				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	90% - 10%		1-3	94% - 9%		1-3	91% - 9%		
Berker INSTA	283010	[R]	60 - 400 W-Turn	1-3	94% - 12%		1-3	98% - 10%					N.A.
Biticino	L4407		60 - 250 W		N.A.	N.A.							N.A.
Busch Jaeger [ABB]	2200 U-503	[R]	60 - 400 W-Turn	1-3	92% - 24%		1-3	98% - 15%		1-3	94% - 25%		
Busch Jaeger [ABB]	2247 U	[R]	20 - 500 W-Turn	1-3	94% - 3%		1-3	96% - 3%		1-3	94% - 3%		
Busch Jaeger [ABB]	2250 U	[R]	60 - 600 W-Turn	1-3	96% - 3%		1-3	98% - 3%		1-3	94% - 3%		
Busch Jaeger [ABB]	6513 U-102	[RC]	40 - 420 W-Turn	1-3	92% - 10%		1-3	98% - 8%		1-3	93% - 9%		
Busch Jaeger [ABB]	6523 U	[LED]	2 - 100 VA-LED-Turn	1-3	82% - 3%		1-3	97% - 5%		1-3	90% - 3%		
Busch Jaeger [ABB]	6526 U	[LED]	2 - 100 VA-LED-Push (2wire)	1-3	88% - 23%					1-3	91% - 25%		
ELKO [Schneider]	SBD200.LED (CCTEL10501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	86% - 13%		1-3	96% - 9%		1-3	90% - 13%		
ELKO [Schneider]	SBD315RC (315 GLE)	[RC]	315W	1-3	88% - 3%		1-3	97% - 3%		1-3	90% - 3%		
ELKO [Schneider]	SBD420RCRL (CCTEL13011)	[RLC]	420W	1-3	92% - 3%		1-3	99% - 4%		1-3	94% - 3%		
Eitako	EVD6INPN-JC		400W 3-wire Push Module										
Fetler [Schneider]	40200 (SBD200.LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	86% - 13%		1-3	96% - 9%		1-3	90% - 13%		
Fetler [Schneider]	40300 (SBD315)	[RLC]	300W				1-3	97% - 3%					
Fetler [Schneider]	40420 (SBD420)	[RLC]	420W				1-3	99% - 4%					
GIRA	1176-00/01	[RLC]	50 - 420W	1-3	92% - 20%					1-3	93% - 19%		
GIRA	2390 00/100	[LED]	7 - 100W-Push (3wire)	1-3	90% - 3%		1-3	97% - 5%		1-3	91% - 3%		
Hager	EVN 011	[RC]	300VA	1-3	97% - 3%					1-3	95% - 4%		
Hager	EVN 012	[RC]	300W	1-3	95% - 3%					1-3	95% - 4%		
Hager	EVN 004	[RL]	500VA	1-3	97% - 5%					1-3	98% - 4%		
Jung	225 TDE	[RC]	20 - 525 W-Turn	1-3	90% - 10%		1-3	98% - 9%		1-3	91% - 11%		
Jung	1271LEDDDE	[LED]	3 - 100W-Push (3wire)	1-3	90% - 28%		1-3	98% - 4%		1-3	91% - 26%		
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	1-3	83% - 25%					1-3	85% - 23%		
Klik aan Klik uit	ACM 300		300W -3-wire Push LED Dimmer										
Legrand	774161	[RL]	40 - 400 W-Turn		N.A.	N.A.	1-3	98% - 8%			N.A.	N.A.	
Legrand	78401	[RLC]	40 - 500W	1-3	92% - 5%					1-3	94% - 5%		
Legrand	67081	[RL]	40 - 400 W-Turn		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.	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	1-3	92% - 5%		1-3	96% - 3%		1-3	92% - 5%		
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-3	94% - 3%		1-3	99% - 3%		1-3	94% - 3%		
Legrand	L4402N	[R]	60 - 500W	1-3	85% - 17%					1-3	85% - 16%		
Merten [Schneider]	SBD200.LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4-400W(RL)	1-3	88% - 13%		1-3	96% - 9%		1-3	90% - 13%		
Merten [Schneider]	SBD315RC (MEG5136-0000)	[RC]	315W	1-3	88% - 3%		1-3	97% - 3%		1-3	90% - 3%		
Merten [Schneider]	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA	1-3	92% - 3%		1-3	99% - 4%		1-3	94% - 3%		
Mk-Electric	K1535	[R]	65 - 450 W-Turn	1-3	82% - 10%		1-3	88% - 9%		1-3	83% - 9%		
Mk-Electric	K1501 WHILV	[R]	60 - 500 W-Turn	1-3	78% - 8%		1-3	93% - 6%		1-3	88% - 8%		
Mk-Electric	K4501 WHILV	[RLC]	180W	1-3	78% - 8%					1-3	88% - 8%		
Mk-Electric	K4500 WHILV	[RLC]	400W	1-3	78% - 8%					1-3	88% - 8%		
NIKO	310-0280X	[LED]	2 - 100 VA	1-3	95% - 13%					1-3	95% - 13%		
PEHA	431HAN	[RL]	6 - 120W [LED] 6 - 60W	1-3	88% - 28%					1-3	88% - 28%		
Philips	UJD8670	[LED]	2 - 100 VA-LED-Push (3wire)	1-3	82% - 3%					1-3	90% - 3%		
RELCO	RP0977	[LED]	4-100W				1-3	98% - 12%					
RELCO	RM0545	[LED]	4-100W				1-3	94% - 6%					
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-3	88% - 3%		1-3	97% - 3%		1-3	90% - 3%		
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	1-3	88% - 3%		1-3	97% - 3%		1-3	90% - 3%		
Schneider	SBD200 (WDE 002299)		4 - 400VA-Turn Universal (2wire)	1-3	88% - 13%		1-3	96% - 9%		1-3	90% - 13%		
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	88% - 3%		1-3	97% - 3%		1-3	90% - 3%		
VADSBO	ED 350	[RC]	50 - 350W	1-3	85% - 17%					1-3	83% - 15%		
VADSBO	DRS 315	[RC]	50 - 315W	1-3	90% - 7%					1-3	91% - 6%		
VADSBO	DU 250	[RC]	20 - 250W	1-3	80% - 3%					1-3	80% - 3%		
Varilight	HQ3W	[R]	60-400W	1-3	94% - 3%		1-3	94% - 4%		1-3	93% - 3%		
Varilight	ICT401 M	[RC]	20-400W										
Vimar	20148	[RL]	500W	1-3	94% - 7%					1-3	94% - 6%		
Vimar	14153	[R]		1-3	97% - 3%					1-3	98% - 3%		
Vimar	20160	[RC]		1-3	90% - 3%		1-3	95% - 6%	-2	1-3	91% - 3%		
Vimar	20162	[RL]	40 - 300W	1-3	88% - 3%		1-3	95% - 5%	-2	1-3	91% - 3%		
Philips Dynalite	DDLE801		(100W per channel)	1-3	92% - 3%		1-3	95% - 3%		1-3	95% - 3%		
Philips Dynalite	DDTMI02 Module		(460 W per channel)	1-3	92% - 3%		1-3	96% - 3%		1-3	96% - 3%		

Note:

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



Professional LED Mains Voltage range

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



KEY

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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	LED Classic filament											
				Classic filament LED lamps 8 - 50W A60 gold / 3.5 - 40W ST64 CL 8 - 50W ST64 gold / 8 - 60W ST64 CL 8 - 60W G3 CL / 8 - 60W G120 gold			Classic filament LED Lamps D 7.5 - 48W A60 Gold / D 5.5 - 40W A60 CL D 8 - 60W A60 CL / DT 5.5 - 40W A60 CL DT 8 - 60W A60 CL / DT 8 - 60W ST6			Classic filament LED Lamps ST64 clear dim 60W ST64 gold dim 50W ST64 gold dim 55W			Classic filament LED Lamps G93 clear 60W / G120 gold dim 50W		
				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	99%-3%		1-3	98%-3%		1-3	93%-3%		1-3	93%-3%	
Berker INSTA	283010	[R]	60 - 400 W-Turn	1-3	99%-3%		2-3	97%-3%		1-3	94%-3%		1-3	94%-3%	
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	1-3	99%-3%		1-3	98%-8%		1-3	97%-3%		1-3	97%-3%	
Busch Jaeger ABB	2247 U	[RL]	20 - 500 W-Turn	1-3	99%-3%		1-3	98%-3%		1-3	94%-3%		1-3	94%-3%	
Busch Jaeger ABB	2250 U	[R]	60 - 600 W-Turn	1-3	99%-3%		1-3	97%-3%		1-3	96%-3%		1-3	96%-3%	
Busch Jaeger ABB	6513 U-102	[RC]	40 - 420 W-Turn	1-3	99%-3%		1-3	99%-3%		1-3	95%-3%		1-3	95%-3%	
Busch Jaeger ABB	6523 U	[LED]	2 - 100 VA-LED-Turn	1-3	99%-3%		1-3	97%-3%		1-3	91%-3%		1-3	91%-3%	
Busch Jaeger ABB	6526 U	[LED]	2 - 100 VA-LED-Push (2wire)	1-3	97%-3%		1-3	93%-3%		1-3	95%-3%		1-3	95%-3%	
ELKO Schneider	SBD200.ED (CCTELI0501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-3	99%-3%		2-3	99%-3%		1-3	94%-6%		1-3	94%-6%	
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W	2-3	99%-3%		2-3	98%-3%		1-3	83%-3%		1-3	83%-3%	
ELKO Schneider	SBD42ORCL (CCTELI3011)	[RLC]	420W		N.A.	N.A.			N.A.	3	99%-3%		3	99%-3%	
Eitako	EVD6INPN-UC		400W 3-wire Push Module	1-3	97%-3%		1-3	91%-3%		1-3	99%-3%		1-3	99%-3%	
Fetler Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-3	99%-3%		2-3	99%-3%		1-3	94%-6%		1-3	94%-6%	
Fetler Schneider	40300 (SBD315)	[RLC]	300W	2-3	99%-3%		2-3	98%-3%							
Fetler Schneider	40420 (SBD420)	[RLC]	420W		N.A.	N.A.			N.A.	N.A.					
GIRA	1176-00/01	[RLC]	50 - 420W	1-3	97%-3%		1-3	99%-3%		1-3	95%-11%		1-3	95%-11%	
GIRA	2390 00/100	[LED]	7 - 100W-Push (3wire)	1-3	99%-3%					1-3	93%-3%		1-3	93%-3%	
Hager	EVN 011	[RC]	300VA	1-3	97%-3%		1-3	92%-3%		1-3	96%-3%		1-3	96%-3%	
Hager	EVN 012	[RC]	300W	1-3	97%-3%		1-3	92%-3%		1-3	98%-3%		1-3	98%-3%	
Hager	EVN 004	[RL]	500VA	1-3	97%-3%		1-3	92%-3%		1-3	98%-4%		1-3	98%-4%	
Jung	225 TDE	[RC]	20 - 525 W-Turn	1-3	98%-3%		1-3	98%-3%		1-3	93%-6%		1-3	93%-6%	
Jung	1271LEDD	[LED]	3 - 100W-Push (3wire)	1-3	99%-3%		1-3	97%-3%		1-3	95%-10%		1-3	95%-10%	
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	1-3	99%-12%		1-3	86%-4%		1-3	86%-3%		1-3	86%-3%	
Klik aan Klik uit	ACM 300		300W 3-wire Push LED Dimmer		N.A.	N.A.	1-3	92%-3%		1-3	80%-3%		1-3	80%-3%	
Legrand	774161	[RL]	40 - 400 W-Turn		N.A.	N.A.	2-3	98%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 - 500W	1-3	97%-3%		1-3	91%-3%		1-3	95%-3%		1-3	95%-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				2-3	97%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 - 400W	1	96%-3%		1-3	90%-3%		1-2	87%-5%		1-2	87%-5%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	1-3	99%-3%		1-3	97%-3%		1-3	95%-3%		1-3	95%-3%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-3	99%-3%		1-3	97%-3%		1-3	98%-3%		1-3	98%-3%	
Legrand	L4402N	[R]	60 - 500W		N.A.	N.A.	2-3	88%-3%		2-3	87%-5%		2-3	87%-5%	
Merten Schneider	SBD200.ED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4-400W(RL)	2-3	99%-3%		2-3	99%-3%		1-3	94%-6%		1-3	94%-6%	
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-3	99%-3%		2-3	98%-3%		1-3	83%-3%		1-3	83%-3%	
Merten Schneider	SBD42ORCL (MEG5138-0000)	[RLC]	20 - 420 VA		N.A.	N.A.			N.A.	3	99%-3%		3	99%-3%	
Mk-Electric	K1535	[R]	65 - 450 W-Turn	1-3	99%-3%		2-3	93%-3%		1-3	84%-3%		1-3	84%-3%	
Mk-Electric	K1501 WHILV	[R]	60 - 500 W-Turn		N.A.	N.A.	1-3	98%-3%		1-3	87%-3%		1-3	87%-3%	
Mk-Electric	K4501 WHILV	[RLC]	180W		N.A.	N.A.	1-3	98%-3%		1-3	91%-9%		1-3	91%-9%	
Mk-Electric	K4500 WHILV	[RLC]	400W		N.A.	N.A.	1-3	92%-3%		1-3	91%-9%		1-3	91%-9%	
NIKO	310-0280X	[LED]	2 - 100 VA	1-3	97%-3%		1-3	91%-3%		1-3	97%-3%		1-3	97%-3%	
PEHA	431HAN	[RL]	6 - 120W [LED] 6 - 60W	1-3	97%-3%		1-3	97%-3%		1-3	87%-3%		1-3	87%-3%	
Philips	UID8670	[LED]	2 - 100 VA-LED-Push (3wire)				1-3	97%-3%		1-3	91%-3%		1-3	91%-3%	
RELCO	RP0977	[LED]	4-100W	1-3	99%-3%		1-3	96%-3%							
RELCO	RM0545	[LED]	4-100W	1-3	99%-3%		1-3	92%-3%							
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-3	99%-3%		2-3	98%-3%		1-3	83%-3%		1-3	83%-3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	2-3	99%-3%		2-3	98%-3%		1-3	83%-3%		1-3	83%-3%	
Schneider	SBD200 (WDE 002299)	[RC]	4 - 400VA-Turn Universal (2wire)	2-3	99%-3%		2-3	99%-3%		1-3	94%-6%		1-3	94%-6%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-3	99%-3%		2-3	98%-3%		1-3	83%-3%		1-3	83%-3%	
VADSBO	ED 350	[RC]	50 - 350W	1-3	97%-3%		1-3	98%-3%		1-3	91%-9%		1-3	91%-9%	
VADSBO	DRS 315	[RC]	50 - 315W		N.A.	N.A.			N.A.	N.A.				N.A.	N.A.
VADSBO	DU 250	[RC]	20 - 250W	1-3	97%-3%		1-3	84%-3%		1-3	87%-3%		1-3	87%-3%	
Varilight	HQ3W	[R]	60-400W	1-3	99%-3%		2-3	97%-3%		1-3	93%-3%		1-3	93%-3%	
Varilight	ICT401 M	[RC]	20-400W	1-3	88%-3%		1-3	75%-3%		1-3	87%-3%		1-3	87%-3%	
Vimar	20148	[RL]	500W		N.A.	N.A.	1-3	95%-3%			-2		1-3	95%-3%	-2
Vimar	14153	[R]			N.A.	N.A.	1-3	89%-3%		1-3	98%-3%		1-3	98%-3%	
Vimar	20160	[RC]		1-3	97%-3%		1-3	98%-3%		1-3	92%-3%		1-3	92%-3%	
Vimar	20162	[RL]	40 - 300W	1-3	99%-3%		1-3	98%-3%		1-3	97%-3%		1-3	97%-3%	-2
Philips Dyalite	DDL E801		(100W per channel)	1-3	87%-3%		3	91%-3%		1-3	89%-3%		1-3	89%-3%	
Philips Dyalite	DDTMO2 Module		(460 W per channel)	1-3	88%-3%		1-3	90%-3%		1-3	91%-3%		1-3	91%-3%	

Note:

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www.lighting.philips.com/main/products/masterled
www.lighting.philips.com/main/products/coreproledlamps



Professional 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
-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	LEDcandle/luster											
				Classic filament lamps 6.5 - 25W Giant G200 smoky 6.5 - 25W Giant A160 smoky 6.5 - 25W T65 smoky			Classic filament LED Lamps 40W E27 G200 GOLD DIM 40W E27 A160 GOLD DIM 40W E27 T65 GOLD DIM			Classic filament LED Lamps 5 - 30W Mushroom gold			Classic filament LED Lamps 5 - 30W bromide W08 ar		
				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	91% - 6%		1-3	87%-15%		1-3	99% - 3%		1-3	99% - 3%	
Berker INSTA	283010	[R]	60 - 400 W-Turn	1-3	93% - 4%		1-2	93%-7%		2-3	99% - 3%		2-3	99% - 3%	
Bticino	L4407		60 - 250 W							N.A.	N.A.		2-3	82% - 3%	
Busch Jaeger [ABB]	2200 U-503	[R]	60 - 400 W-Turn	1-3	93% - 13%		1-3	97%-13%		1-3	99% - 7%		1-3	99% - 8%	
Busch Jaeger [ABB]	2247 U	[RL]	20 - 500 W-Turn	1-3	92% - 3%		1-3	92%-3%		1-3	99% - 3%		2-3	99% - 3%	
Busch Jaeger [ABB]	2250 U	[R]	60 - 600 W-Turn	1-3	93% - 3%		1-2	91%-12%		2-3	99% - 3%		2-3	99% - 3%	
Busch Jaeger [ABB]	6513 U-102	[RC]	40 - 420 W-Turn	1-3	93% - 4%		1-3	92%-13%		1-3	99% - 3%		1-3	99% - 3%	
Busch Jaeger [ABB]	6523 U	[LED]	2 - 100 VA-LED-Turn	1-3	90% - 8%		1-3	84%-16%		1-3	99% - 3%		1-3	99% - 3%	
Busch Jaeger [ABB]	6526 U	[LED]	2 - 100 VA-LED-Push (2wire)							1-3	99% - 3%		1-3	99% - 3%	
ELKO [Schneider]	SBD200.ED (CCTELI0501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	92% - 6%		1-3	91%-16%		N.A.	N.A.		1-3	99% - 3%	
ELKO [Schneider]	SBD315RC (315 GLE)	[RC]	315W	1-3	90% - 3%		1-3	91%-3%		2-3	99% - 3%		2-3	99% - 3%	
ELKO [Schneider]	SBD420RCRL (CCTELI3011)	[RLC]	420W	2-3	95% - 5%		3	94%-17%		N.A.	N.A.		N.A.	N.A.	
Eitako	EVD6INPN-UC		400W 3-wire Push Module							1-3	98% - 3%		1-3	99% - 3%	
Feller [Schneider]	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	92% - 6%					N.A.	N.A.		1-3	99% - 3%	
Feller [Schneider]	40300 (SBD315)	[RLC]	300W	1-3	90% - 3%					2-3	99% - 3%		2-3	99% - 3%	
Feller [Schneider]	40420 (SBD420)	[RLC]	420W	2-3	95% - 5%					N.A.	N.A.		N.A.	N.A.	
GIRA	1176-00/01	[RLC]	50 - 420W							1-3	99% - 3%		1-3	99% - 3%	
GIRA	2390 00/100	[LED]	7 - 100W -Push (3wire)	1-3	89% - 3%		1-3	83%-4%		1-3	99% - 3%		1-3	99% - 3%	
Hager	EVN 011	[RC]	300VA							1-3	99% - 3%		1-3	99% - 3%	
Hager	EVN 012	[RC]	300W							1-3	99% - 3%		1-3	97% - 3%	
Hager	EVN 004	[RL]	500VA							1-3	99% - 3%		1-3	99% - 3%	
Jung	225 TDE	[RC]	20 - 525 W-Turn	1-3	92% - 7%		1-3	89%-17%		1-3	99% - 3%		1-3	99% - 3%	
Jung	1271LEDDE	[LED]	3 - 100W -Push (3wire)	1-3	88% - 3%		1-3	83%-4%		1-3	99% - 3%		1-3	99% - 3%	
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W							N.A.	N.A.		1-3	99% - 4%	
Klik aan Klik uit	ACM 300		300W -3-wire Push LED Dimmer							2-3	98% - 3%		2-3	99% - 3%	
Legrand	774161	[RL]	40 - 400 W-Turn		N.A.	N.A.	3	95%-9%		N.A.	N.A.		2-3	92% - 3%	
Legrand	78401	[RLC]	40 - 500W							1-3	98% - 3%		1-3	97% - 3%	
Legrand	67081	[RL]	40 - 400 W-Turn												
Legrand	67082	[RL]	40 - 600 W-Turn												
Legrand	67083	[RLC]	3 - 400W							1-3	98% - 3%		1-3	97% - 3%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	1-3	94% - 3%		2-3	92%-8%		1-3	98% - 4%		2-3	99% - 3%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-3	97% - 3%		1-3	93%-3%		1-3	98% - 3%		1-3	98% - 3%	
Legrand	L4402N	[R]	60 - 500W							2-3	98% - 3%		2-3	97% - 3%	
Merten [Schneider]	SBD200.ED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4-400W(RL)	1-3	92% - 6%					N.A.	N.A.		1-3	99% - 3%	
Merten [Schneider]	SBD315RC (MEG5136-0000)	[RC]	315W	1-3	90% - 3%					2-3	99% - 3%		2-3	99% - 3%	
Merten [Schneider]	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA	2-3	95% - 5%					N.A.	N.A.		N.A.	N.A.	
Mk-Electric	K1535	[R]	65 - 450 W-Turn	2-3	81% - 5%		1	68%-12%		2-3	92% - 3%		2-3	92% - 3%	
Mk-Electric	K1501 WHILV	[R]	60 - 500 W-Turn	2-3	87% - 3%		1-2	84%-8%		1 or 3	99% - 3%		1-3	99% - 3%	
Mk-Electric	K4501 WHILV	[RLC]	180W							1-3	98% - 3%		1-3	99% - 3%	
Mk-Electric	K4500 WHILV	[RLC]	400W							1-3	98% - 3%		1-3	98% - 3%	
NIKO	310-0280X	[LED]	2 - 100 VA							1-3	98% - 3%		1-3	98% - 3%	
PEHA	431HAN	[RL]	6 - 120W [LED] 6 - 60W							1-3	97% - 3%		1-3	98% - 3%	
Philips	UID8670	[LED]	2 - 100 VA-LED-Push (3wire)												
RELCO	RP0977	[LED]	4-100W	1-3	96% - 16%		1-3	91%-23%		1-3	99% - 3%		1-3	99% - 3%	
RELCO	RM0545	[LED]	4-100W	1-3	90% - 3%		1-3	87%-7%		1-3	99% - 3%		1-3	99% - 3%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-3	90% - 3%					2-3	99% - 3%		2-3	99% - 3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315W	1-3	90% - 3%					2-3	99% - 3%		2-3	99% - 3%	
Schneider	SBD200 (WDE 002299)		4 - 400VA-Turn Universal (2wire)	1-3	92% - 6%					N.A.	N.A.		1-3	99% - 3%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	90% - 3%					2-3	99% - 3%		2-3	99% - 3%	
VADSBO	ED 350	[RC]	50 - 350W							1-3	98% - 3%		1-3	97% - 3%	
VADSBO	DRS 315	[RC]	50 - 315W							3	98% - 3%		N.A.	N.A.	
VADSBO	DU 250	[RC]	20 - 250W							1-3	91% - 3%		1-3	91% - 3%	
Varilight	HQ3W	[R]	60-400W	2-3	92% - 3%		1-3	89%-9%		2-3	96% - 3%		2-3	92% - 3%	
Varilight	IC1401 M	[RC]	20-400W							2-3	87% - 3%		1-3	93% - 3%	
Vimar	20148	[RL]	500W	1 or 3	92% - 3%		1-3	94%-8%		1-3	99% - 3%	< 2	2-3	99% - 3%	
Vimar	14153	[R]								3	98% - 3%		1-3	98% - 3%	
Vimar	20160	[RC]								1-3	99% - 3%		1-3	99% - 3%	
Vimar	20162	[RL]	40 - 300W	1-3	90% - 4%		1-3	93%-5%		1-3	99% - 3%	< 2	1-3	99% - 3%	
Philips Dyalite	DDLE801		(100W per channel)	1-3	88% - 3%		1-3	89%-3%		N.A.	N.A.		2-3	85% - 3%	
Philips Dyalite	DDTM02 Module		(460 W per channel)	1-3	89% - 3%		1-3	86%-3%		1-3	86% - 3%		2-3	85% - 3%	

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Professional LED Mains Voltage range

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



KEY

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x-y	Lamps are dimmable across full dimming range, but exhibit diminished flickering at a single distinct position in the range
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				LEDcandle/luster											
				Classic filament LED lamps DimTone 5.5 - 40W A60 8.5 - 60W A60 8.5 - 60W ST64			Classic filament LED lamps 12 - 100W A67			MASTER LED candles and lusters DimTone 4-25W			MASTER LED candles and lusters DimTone 6-40W		
				NEW			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	92% - 14%		2-18	96%-3%		2-12	93%-3%	
Berker INSTA	283010	[R]	60 - 400 W-Turn	1-3	90% - 3%		1-3	98% - 14%		2-20	89%-3%		2-13	89%-3%	
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	1-3	93% - 3%		1-3	97% - 7%		2-20	92%-3%		2-13	92%-3%	
Busch Jaeger [ABB]	2247 U	[RL]	20 - 500 W-Turn	1-3	90% - 3%		1-3	98% - 3%		2-25	91%-3%		2-17	91%-3%	
Busch Jaeger [ABB]	2250 U	[R]	60 - 600 W-Turn	1-3	92% - 3%		1-3	98% - 15%		2-30	88%-3%		2-20	93%-3%	
Busch Jaeger [ABB]	6513 U-102	[RC]	40 - 420 W-Turn	1-3	94% - 8%		1-3	96% - 13%		2-21	94%-3%		2-14	91%-3%	
Busch Jaeger [ABB]	6523 U	[LED]	2 - 100 VA-LED-Turn	1-3	86% - 3%		1-3	94% - 19%		2-20	84%-3%		2-17	83%-3%	
Busch Jaeger [ABB]	6526 U	[LED]	2 - 100 VA-LED-Push (2wire)	1-3	91% - 4%					2-20	88%-7%	<4	2-17	88%-5%	<6
ELKO [Schneider]	SBD200LED (CCTELI0501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	88% - 3%		1-3	90% - 15%		2-20	95%-3%		2-13	92%-3%	
ELKO [Schneider]	SBD315RC (315 GLE)	[RC]	315W	1-3	93% - 3%		1-3	90% - 3%		2-15	86%-3%		2-11	87%-0%	
ELKO [Schneider]	SBD420RCRL (CCTELI3011)	[RLC]	420W	1-3	89% - 3%		1-3	93% - 15%		2-20	91%-3%		2-14	90%-3%	
Eitako	EVD6INPN-UC		400W 3-wire Push Module												
Feller [Schneider]	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	1-3	88% - 3%		1-3	90% - 15%		2-20	95%-3%		2-13	92%-3%	
Feller [Schneider]	40300 (SBD315)	[RLC]	300W	1-3	93% - 3%		1-3	90% - 3%							
Feller [Schneider]	40420 (SBD420)	[RLC]	420W	1-3	89% - 3%		1-3	93% - 15%							
GIRA	1176-00/01	[RLC]	50 - 420W	1-3	93% - 5%					2-20	95%-7%	<7	2-14	95%-5%	<9
GIRA	2390 00/100	[LED]	7 - 100W -Push (3wire)	1-3	86% - 3%		1-3	97%5%		2-25	94%-3%		2-17	92%-3%	
Hager	EVN 011	[RC]	300VA	1-3	98% - 3%						95%-4%	<7	2-10	96%-3%	<10
Hager	EVN 012	[RC]	300W	1-3	98% - 3%						95%-4%	<7	2-10	95%-3%	<10
Hager	EVN 004	[RL]	500VA	1-3	98% - 3%						95%-7%	<7	2-17	95%-4%	<11
Jung	225 TDE	[RC]	20 - 525 W-Turn	1-3	93% - 3%		1-3	94% - 16%		2-26	89%-3%		2-18	89%-3%	
Jung	1271LEDDE	[LED]	3 - 100W -Push (3wire)	1-3	87% - 7%		1-3	97%3%		2-25	93%-4%		2-17	92%-3%	
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	1-3	82% - 4%						78%-7%	<6	2-4	77%-4%	<5
Klik aan Klik uit	ACM 300		300W -3-wire Push LED Dimmer												
Legrand	774161	[RL]	40 - 400 W-Turn			N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 - 500W	1-3	96% - 3%					2-20	95%-4%	<7	2-13	93%-4%	<9
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.		N.A.	N.A.
Legrand	67083	[RLC]	3 - 400W		N.A.	N.A.					N.A.	N.A.		N.A.	N.A.
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	1-3	95% - 3%		1-3	98% - 4%			N.A.	N.A.		N.A.	N.A.
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	1-3	88% - 17%		1-3	94% - 3%		2-15	94%-3%		2-10	91%-3%	
Legrand	L4402N	[R]	60 - 500W		N.A.	N.A.					79%-4%		8-17	79%-4%	
Merten [Schneider]	SBD200LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4-400W(RL)	1-3	88% - 3%		1-3	90% - 15%		2-20	95%-3%		2-13	92%-3%	
Merten [Schneider]	SBD315RC (MEG5136-0000)	[RC]	315W	1-3	93% - 3%		1-3	90% - 3%		2-15	88%-3%		2-11	87%-3%	
Merten [Schneider]	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA	1-3	89% - 3%		1-3	93% - 15%		2-20	91%-3%		2-14	90%-3%	
Mk-Electric	K1535	[R]	65 - 450 W-Turn		N.A.	N.A.	1-3	84% - 16%		2-23	79%-3%		2-15	77%-3%	
Mk-Electric	K1501 WHILV	[R]	60 - 500 W-Turn	1-3	85% - 3%		1-3	91% - 8%		2-25	86%-3%		2-17	87%-3%	
Mk-Electric	K4501 WHILV	[RLC]	180W	1-3	88% - 3%						83%-3%		2-7	82%-3%	
Mk-Electric	K4500 WHILV	[RLC]	400W	1-3	88% - 3%						83%-3%			N.A.	N.A.
NIKO	310-0280X	[LED]	2 - 100 VA	1-3	98% - 4%					2-5	96%-5%		2-3	96%-4%	
PEHA	431HAN	[RL]	6 - 120W [LED] 6 - 60W	1-3	88% - 4%						82%-7%		2-4	82%-5%	
Philips	UID8670	[LED]	2 - 100 VA-LED-Push (3wire)	1-3	86% - 3%					2-20	84%-3%		2-17	83%-3%	
RELCO	RP0977	[LED]	4-100W				1-3	99% - 23%							
RELCO	RM0545	[LED]	4-100W				1-3	83% - 6%							
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	1-3	93% - 3%		1-3	90% - 3%		2-15	88%-3%		2-11	87%-3%	
Schneider	SBD315RC (ATD315)(CCTO15133)	[RC]	315W	1-3	93% - 3%		1-3	90% - 3%		2-15	88%-3%		2-11	87%-3%	
Schneider	SBD200 (WDE 002299)		4 - 400VA-Turn Universal (2wire)	1-3	88% - 3%		1-3	90% - 15%		2-20	95%-3%		2-13	92%-3%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	1-3	93% - 3%		1-3	90% - 3%		2-15	88%-3%		2-11	87%-3%	
VADSBO	ED 350	[RC]	50 - 350W	1-3	91% - 5%					2-18	88%-7%		2-12	84%-4%	
VADSBO	DRS 315	[RC]	50 - 315W		N.A.	N.A.				4-16	89%-4%		5-11	91%-4%	<12
VADSBO	DU 250	[RC]	20 - 250W	1-3	88% - 3%	<4				2-13	86%-3%		2-8	79%-3%	<8
Varilight	HQ3W	[R]	60-400W	1-3	92% - 3%		1-3	96% - 3%		2-20	91%-3%		2-13	90%-3%	
Varilight	IC1401 M	[RC]	20-400W												
Vimar	20148	[RL]	500W		N.A.	N.A.	1-3	97% - 8%		6-25	90%-3%	<6	4-17	92%-3%	<4
Vimar	14153	[R]		1-3	98% - 3%					2-20	99%-3%		2-17	96%-3%	<7
Vimar	20160	[RC]			N.A.	N.A.					89%-3%		2-10	89%-3%	<11
Vimar	20162	[RL]	40 - 300W		N.A.	N.A.	1-3	92% - 3%		6-15	92%-3%	<6	4-10	86%-3%	<4
Philips Dyalite	DDLE801		(100W per channel)	1-3	95% - 3%		1-2	96% - 3%		2-20	99%-3%		2-17	91%-3%	
Philips Dyalite	DDTM02 Module		(460 W per channel)	1-3	98% - 3%		1-3	94% - 3%		2-20	92%-3%		2-15	91%-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. 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
 #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.

www.lighting.philips.com/main/products/masterled
www.lighting.philips.com/main/products/coreproledlamps



Professional 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	LED spot								
				MASTER LED candles and lusters DimTone 6-40W			Classic filament LED lamps 5 - 32W B35 gold 5 - 32W P45 gold 5 - 32W E			Classic filament LED lamps D 2.7 - 25W D 5 - 40W D 5 - 35W		
				Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker INSTA	286710	[RC]	20 - 360 W-Turn	2-12	90%-3%		2 - 10	94%- 3%		2 - 8	95%- 3%	
Berker INSTA	283010	[R]	60 - 400 W-Turn				2 - 10	97%- 3%		2 - 8	95%- 3%	
Biticino	L4407		60 - 250 W		N.A.	N.A.					N.A.	N.A.
Busch Jaeger ABB	2200 U-503	[R]	60 - 400 W-Turn				2 - 10	97%- 11%		2 - 8	99%- 12%	
Busch Jaeger ABB	2247 U	[RL]	20 - 500 W-Turn				2 - 10	97%- 3%		2 - 8	99%- 3%	
Busch Jaeger ABB	2250 U	[R]	60 - 600 W-Turn	2-15	92%-3%		2 - 10	95%- 3%		3 - 8	99%- 3%	
Busch Jaeger ABB	6513 U-102	[RC]	40 - 420 W-Turn	2-14	91%-3%		3 - 10	97%- 3%		3 - 8	99%- 3%	
Busch Jaeger ABB	6523 U	[LED]	2 - 100 VA-LED-Turn	2-15	88%-3%		2 - 10	97%- 3%		2 - 6	99%- 3%	
Busch Jaeger ABB	6526 U	[LED]	2 - 100 VA-LED-Push (2wire)	2-17	99%-3%					2 - 20	97%- 3%	
ELKO Schneider	SBD200.LED (CCTEL10501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-13	90%-3%		5 - 10	96%- 3%		2 - 8	95%- 3%	
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W	2-11	90%-3%		5 - 10	97%- 3%		3 - 8	95%- 3%	
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420W					N.A.	N.A.	3 - 8	99%- 3%	
Eitako	EVD6INPN-JC		400W 3-wire Push Module	2-13	99%-3%					2 - 16	96%- 3%	
Fetler Schneider	40200 (SBD200.LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	2-13	90%-3%		5 - 10	96%- 3%		2 - 8	99%- 3%	
Fetler Schneider	40300 (SBD315)	[RLC]	300W	2-11	90%-3%		5 - 10	97%- 3%		3 - 8	99%- 3%	
Fetler Schneider	40420 (SBD420)	[RLC]	420W					N.A.	N.A.	3 - 8	99%- 3%	
GIRA	1176-00/01	[RLC]	50 - 420W	2-14	99%-4%					2 - 17	97%- 3%	
GIRA	2390 00/100	[LED]	7 - 100W-Push (3wire)				2 - 10	97%- 3%		2 - 8	99%- 19%	
Hager	EVN 011	[RC]	300VA	2-10	99%-3%					2 - 12	96%- 3%	
Hager	EVN 012	[RC]	300W	2-10	99%-3%					2 - 12	96%- 3%	
Hager	EVN 004	[RL]	500VA	2-10	99%-3%					2 - 20	96%- 3%	
Jung	225 TDE	[RC]	20 - 525 W-Turn	2-10	89%-3%		2 - 10	94%- 3%		2 - 8	99%- 3%	
Jung	1271LEDD	[LED]	3 - 100W-Push (3wire)	2-15	90%-3%		2 - 10	95%- 3%		2 - 8	99%- 3%	
Klik aan Klik uit	AWMD-250	[LED]	3 - 24W	2-4	88%-3%					2 - 5	93%- 4%	
Klik aan Klik uit	ACM 300		300W -3-wire Push LED Dimmer	2-10	94%-3%					2 - 12	96%- 3%	
Legrand	774161	[RL]	40 - 400 W-Turn					N.A.	N.A.	3 - 8	99%- 3%	
Legrand	78401	[RLC]	40 - 500W	2-13	99%-3%					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							3 - 8	99%- 3%	
Legrand	67083	[RLC]	3 - 400W	2-5	87%-3%					2 - 16	95%- 3%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)				2 - 10	97%- 3%		2 - 8	99%- 3%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	2-10	95%-3%		2 - 10	94%- 3%		2 - 8	99%- 3%	
Legrand	L4402N	[R]	60 - 500W	3-17	90%-3%					3 - 20	95%- 3%	
Merten Schneider	SBD200.LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4-400W(RL)	2-13	90%-3%		5 - 10	96%- 3%		2 - 8	99%- 3%	
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	2-11	90%-3%		5 - 10	97%- 3%		3 - 8	99%- 3%	
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA					N.A.	N.A.	3 - 8	99%- 3%	
Mk-Electric	K1535	[R]	65 - 450 W-Turn	2-15	80%-3%		2 - 10	97%- 3%		3 - 8	99%- 3%	
Mk-Electric	K1501 WHILV	[R]	60 - 500 W-Turn	2-15	80%-3%		2 - 10	97%- 3%		3 - 8	99%- 3%	
Mk-Electric	K4501 WHILV	[RLC]	180W	2-7	90%-3%					3 - 9	96%- 3%	
Mk-Electric	K4500 WHILV	[RLC]	400W	2-13	84%-3%					8 - 16	96%- 3%	
NIKO	310-0280X	[LED]	2 - 100 VA	2-3	99%-3%					2 - 4	94%- 3%	
PEHA	431HAN	[RL]	6 - 120W [LED] 6 - 60W	2-4	89%-3%					2 - 5	96%- 3%	
Philips	UJD8670	[LED]	2 - 100 VA-LED-Push (3wire)	2-15	88%-3%					2 - 6	99%- 3%	
RELCO	RP0977	[LED]	4-100W	2-3	99%-4%		2 - 10	97%- 3%		2 - 4	96%- 3%	
RELCO	RM0545	[LED]	4-100W	2-3	96%-3%		2 - 10	97%- 3%			N.A.	N.A.
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315W	2-11	90%-3%		5 - 10	97%- 3%		3 - 8	99%- 3%	
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	2-11	90%-3%		5 - 10	97%- 3%		3 - 8	99%- 3%	
Schneider	SBD200 (WDE 002299)		4 - 400VA-Turn Universal (2wire)	2-13	90%-3%		5 - 10	96%- 3%		2 - 8	99%- 3%	
Schneider	SBD315RC (SBD 315)	[RC]	315W	2-11	90%-3%		5 - 10	97%- 3%		3 - 8	99%- 3%	
VADSBO	ED 350	[RC]	50 - 350W	2-12	90%-3%					2 - 14	95%- 3%	
VADSBO	DRS 315	[RC]	50 - 315W	3-11	80%-3%					3 - 13	95%- 3%	
VADSBO	DU 250	[RC]	20 - 250W	2-8	85%-3%					2 - 10	85%- 3%	
Varilight	HQ3W	[R]	60-400W	2-13	90%-3%		2 - 10	96%- 3%		3 - 8	99%- 3%	
Varilight	ICT401 M	[RC]	20-400W	2-13	88%-3%					3 - 16	90%- 3%	
Vimar	20148	[RL]	500W				2 - 10	97%- 3%		2 - 8	99%- 3%	<2
Vimar	14153	[R]		2-17	93%-3%					5 - 20	96%- 3%	
Vimar	20160	[RC]		2-17	96%-3%					2 - 20	96%- 3%	
Vimar	20162	[RL]	40 - 300W				2 - 10	97%- 3%		2 - 8	99%- 3%	<2
Philips Dynalite	DDLE801		(100W per channel)				2 - 10	97%- 3%		5 - 8	94%- 3%	
Philips Dynalite	DDTM102 Module		(460 W per channel)				2 - 10	97%- 3%		2 - 8	95%- 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 recommend 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 light sources. (e.g. flickering where "active loads" can reduce your problems)
- Yellow cells indication: Dimming range, minimum dim level will be >10%, and/or maximum level will be <80% lightlevel
- 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
- In general Philips dimmable LED lamps can be dimmed with any type of dimmer (type R, RL, RC or RLC).

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Professional 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	LED spot								
				CorePro LEDcapsule MV G9 2.5W - 25W			Corepro LEDlinear MV R7s 118mm D14W - 100W			Corepro LEDlinear MV R7s 118mm D14 - 120		
				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%	
Biticino	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	[RL]	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%-2%	-7				1	96%-15%	
ELKO Schneider	SBD200.LED (CCTELI0501)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	3-20	96%-30%		1	88%-10%		1	94%-21%	
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315W	3-20	95%-9%		1	89%-3%		1	93%-4%	
ELKO Schneider	SBD420RCRL (CCTELI3011)	[RLC]	420W		N.A.	N.A.	1	93%-3%			N.A.	N.A.
Eitako	EVD6INPN-JC		400W 3-wire Push Module	3-20	99%-15%					1-3	97%-7%	
Fetler Schneider	40200 (SBD200.LED CCTCH10601)	[LED/RC]	4 - 200W(RC) 4 - 400W(RL)	3-20	96%-30%		1	88%-10%				
Fetler Schneider	40300 (SBD315)	[RLC]	300W									
Fetler 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%			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	1271LEDD	[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%			N.A.	N.A.	1	96%-3%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	3-20	99%-4%			N.A.	N.A.	1	99%-3%	
Legrand	L4402N	[R]	60 - 500W		N.A.	N.A.				1	87%-22%	
Merten Schneider	SBD200.LED (MEG5134-0000)	[LED/RC]	4 - 200W(RC) 4-400W(RL)	3-20	96%-30%		1	88%-10%				
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315W	3-20	95%-9%		1	89%-3%				
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 - 420 VA				1	93%-3%				
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	UJD8670	[LED]	2 - 100 VA-LED-Push (3wire)	3-20	92%-3%		1	88%-3%				
RELCO	RP0977	[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	89%-3%				
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC]	315W	3-20	95%-9%		1	89%-3%				
Schneider	SBD200 (WDE 002299)		4 - 400VA-Turn Universal (2wire)	3-20	96%-30%		1	88%-10%				
Schneider	SBD315RC (SBD 315)	[RC]	315W	3-20	95%-9%		1	89%-3%				
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				1-3	96%-3%	
Vimar	20160	[RC]		3-20	N.A.	N.A.				1-3	95%-6%	<2
Vimar	20162	[RL]	40 - 300W	3-20	96%-18%	<21	1	90%-5%		1	94%-15%	
Philips Dynalite	DDLE801		(100W per channel)	3-20	97%-3%		1	88%-3%		1	97%-3%	
Philips Dynalite	DDTM102 Module		(460 W per channel)	3-20	97%-3%		1	91%-3%		1	99%-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 light sources. (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. 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
 - #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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Data subject to change.