















# 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					
				Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
				<b>CLASSIC LEDBulb</b> D 8-50W A60 E27 CRI80 GOLD / D 8- 50W A60 B22 CRI80 GOLD D 5.5-40W ST64 E27 CRI80 CL / D 8-60W ST64 E27 CRI80 CL D 8-60W ST64 B22 CRI80 CL / D 8-60W G93 E27 CRI80 CL D 8-50W ST64 E27 CRI80 GOLD / D 8-50W G120 E27 CRI80 GOLD			<b>CLASSIC LEDBulb</b> D 8-50W 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 8.5-60W ST64 CL		
Berker  INSTA	286710	[RC ]	20 – 360 W - Turn	1-3	99%-3%		1-3	98%-3%	
Berker  INSTA	283010	[R ]	60 – 400 W - Turn	1-3	99%-3%		2-3	97%-3%	
Bticino	L4407		60 – 250 W		N.A.	N.A.			
Busch Jaeger  ABB	2200 U – 503	[R ]	60 – 400 W - Turn	1-3	99%-3%		1-3	98%-8%	
Busch Jaeger  ABB	2247 U	[R L ]	20 – 500 W - Turn	1-3	99%-3%		1-3	98%-3%	
Busch Jaeger  ABB	2250 U	[R ]	60 – 600 W - Turn	1-3	99%-3%		1-3	97%-3%	
Busch Jaeger  ABB	6513 U – 102	[RC ]	40 – 420 W - Turn	1-3	99%-3%		1-3	99%-3%	
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED - Turn	1-3	99%-3%		1-3	97%-3%	
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)	1-3	97%-3%		1-3	93%-3%	
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-3	99%-3%		2-3	99%-3%	
ELKO  Schneider	SBD315RC (315 GLE )	[RC ]	315W	2-3	99%-3%		2-3	98%-3%	
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC ]	420W		N.A.	N.A.		N.A.	N.A.
Eltako	EVD61NPN-UC		400W 3-wire Push Module	1-3	97%-3%		1-3	91%-3%	
Feller  Schneider	40200 (SBD200LED CCTCHI0601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-3	99%-3%		2-3	99%-3%	
Feller  Schneider	40300 (SBD315)	[RLC ]	300W	2-3	99%-3%		2-3	98%-3%	
Feller  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%	
GIRA	2390 00/ 100	[LED]	7 – 100W - Push (3wire)	1-3	99%-3%				
Hager	EVN 011	[RC ]	300VA	1-3	97%-3%		1-3	92%-3%	
Hager	EVN 012	[RC ]	300W	1-3	97%-3%		1-3	92%-3%	
Hager	EVN 004	[RL ]	500VA	1-3	97%-3%		1-3	92%-3%	
Jung	225 TDE	[RC ]	20 – 525 W - Turn	1-3	98%-3%		1-3	98%-3%	
Jung	1271LEDE	[LED]	3 – 100W - Push (3wire)	1-3	99%-3%		1-3	97%-3%	
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W	1-3	99%-12%		1-3	86%-4%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer		N.A.	N.A.	1-3	92%-3%	
Legrand	774161	[RL ]	40 – 400 W - Turn		N.A.	N.A.	2-3	98%-3%	
Legrand	78401	[RLC ]	40 – 500W	1-3	97%-3%		1-3	91%-3%	
Legrand	67081	[RL ]	40 – 400 W - Turn					N.A.	N.A.
Legrand	67082	[RL ]	40 – 600 W - Turn				2-3	97%-3%	
Legrand	67083	[RLC ]	3 – 400W				1-3	90%-3%	
Legrand	67084	[RLC ]	8 – 300 VA - Push LED (3wire)	1-3	99%-3%		1-3	97%-3%	
Legrand	67085 (078406)	[RLC ]	8 – 300 VA - Push LED (3wire)	1-3	99%-3%		1-3	97%-3%	
Legrand	L4402N	[R ]	60 – 500W		N.A.	N.A.	2-3	88%-3%	
Merten  Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)	2-3	99%-3%		2-3	99%-3%	
Merten  Schneider	SBD315RC (MEG5136-0000)	[RC ]	315W	2-3	99%-3%		2-3	98%-3%	
Merten  Schneider	SBD420RCRL (MEG5138-0000)	[ RLC ]	20 – 420 VA		N.A.	N.A.		N.A.	N.A.
MK - Electric	K1535	[R ]	65 – 450 W - Turn	1-3	99%-3%		2-3	93%-3%	
MK - Electric	K1501 WHILV	[R ]	60 – 500 W - Turn		N.A.	N.A.	1-3	98%-3%	
MK - Electric	K4501 WHILV	[RLC ]	180W		N.A.	N.A.	1-3	98%-3%	
MK - Electric	K4500 WHILV	[RLC ]	400W		N.A.	N.A.	1-3	92%-3%	
NIKO	310-0280X	[LED]	2 – 100 VA	1-3	97%-3%		1-3	91%-3%	
PEHA	431HAN	[RL ]	6 – 120W [LED] 6 – 60W	1-3	97%-3%		1-3	97%-3%	
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)				1-3	97%-3%	
RELCO	RP0977	[LED]	4-100W	1-3	99%-3%		1-3	98%-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%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC ]	315W	2-3	99%-3%		2-3	98%-3%	
Schneider	SBD200 (WDE 002299)		4 – 400VA - Turn Universal (2wire)	2-3	99%-3%		2-3	99%-3%	
Schneider	SBD315RC (SBD 315)	[RC ]	315W	2-3	99%-3%		2-3	98%-3%	
VADSBO	ED 350	[RC ]	50 – 350W	1-3	97%-3%		1-3	98%-3%	
VADSBO	DRS 315	[RC ]	50 – 315W		N.A.	N.A.		N.A.	N.A.
VADSBO	DU 250	[RC ]	20 – 250W	1-3	97%-3%		1-3	84%-3%	
Varilight	HQ3W	[R ]	60-400W	1-3	99%-3%		2-3	97%-3%	
Varilight	ICT401 M	[RC ]	20-400W	1-3	88%-3%		1-3	75%-3%	
Vimar	20148	[RL ]	500W		N.A.	N.A.	1-3	98%-3%	
Vimar	14153	[R ]			N.A.	N.A.	1-3	89%-3%	
Vimar	20160	[RC ]		1-3	97%-3%		1-3	91%-3%	
Vimar	20162	[RL ]	40 – 300W	1-3	99%-3%		1-3	98%-3%	
Philips Dynalite	DDLE801		(100W per channel)	1-3	87%-3%		3	91%-3%	
Philips Dynalite	DDTM102 Module		(460 W per channel)	1-3	88%-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 Signify 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% light level
  - #5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.
  - #7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefore we indicated 3% as minimum light level as lab condition.
  - #8) Dimmer manufacturers may change the technical design of the dimmer without informing LED lamp suppliers. These changes can influence the performance of LED products. Signify 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:  
Signify will not accept claims for any damage caused by implementing the recommendations in this document.

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## KEY

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N.A.	Dimmer lamp combination not applicable
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Brand	Type	[Type]	Load
Berker  INSTA	286710	[RC ]	20 – 360 W - Turn
Berker  INSTA	283010	[R ]	60 – 400 W - Turn
Bticino	L4407		60 – 250 W
Busch Jaeger  ABB	2200 U – 503	[R ]	60 – 400 W - Turn
Busch Jaeger  ABB	2247 U	[R L ]	20 – 500 W - Turn
Busch Jaeger  ABB	2250 U	[R ]	60 – 600 W - Turn
Busch Jaeger  ABB	6513 U – 102	[RC ]	40 – 420 W - Turn
Busch Jaeger  ABB	6523 U	[LED]	2 – 100 VA-LED - Turn
Busch Jaeger  ABB	6526 U	[LED]	2 – 100 VA-LED - Push (2wire)
ELKO  Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)
ELKO  Schneider	SBD315RC (315 GLE )	[RC ]	315W
ELKO  Schneider	SBD420RCRL (CCTEL13011)	[RLC ]	420W
Eltako	EVD61NPN-UC		400W 3-wire Push Module
Feller  Schneider	40200 (SBD200LED CCTCHI0601)	[LED/RC]	4 – 200W(RC) 4 – 400W(RL)
Feller  Schneider	40300 (SBD315)	[RLC ]	300W
Feller  Schneider	40420 (SBD420)	[RLC ]	420W
GIRA	1176-00/01	[RLC ]	50 – 420W
GIRA	2390 00/ 100	[LED]	7 – 100W - Push (3wire)
Hager	EVN 011	[RC ]	300VA
Hager	EVN 012	[RC ]	300W
Hager	EVN 004	[RL ]	500VA
Jung	225 TDE	[RC ]	20 – 525 W - Turn
Jung	1271LEDDE	[LED]	3 – 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W – 3-wire Push LED Dimmer
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Legrand	67081	[RL ]	40 – 400 W - Turn
Legrand	67082	[RL ]	40 – 600 W - Turn
Legrand	67083	[RLC ]	3 – 400W
Legrand	67084	[RLC ]	8 – 300 VA - Push LED (3wire)
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Legrand	L4402N	[R ]	60 – 500W
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Merten  Schneider	SBD420RCRL (MEG5138-0000)	[RLC ]	20 – 420 VA
MK - Electric	K1535	[R ]	65 – 450 W - Turn
MK - Electric	K1501 WHILV	[R ]	60 – 500 W - Turn
MK - Electric	K4501 WHILV	[RLC ]	180W
MK - Electric	K4500 WHILV	[RLC ]	400W
NIKO	310-0280X	[LED]	2 – 100 VA
PEHA	431HAN	[RL ]	6 – 120W [LED] 6 – 60W
Philips	UID8670	[LED]	2 – 100 VA-LED - Push (3wire)
RELCO	RP0977	[LED]	4-100W
RELCO	RM0545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC ]	315W
Schneider	SBD315RC (ATD315)(CCTO11533)	[RC ]	315W
Schneider	SBD200 (WDE 002299)		4 – 400VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC ]	315W
VADSBO	ED 350	[RC ]	50 – 350W
VADSBO	DRS 315	[RC ]	50 – 315W
VADSBO	DU 250	[RC ]	20 – 250W
Varilight	HQ3W	[R ]	60-400W
Varilight	ICT401 M	[RC ]	20-400W
Vimar	20148	[RL ]	500W
Vimar	14153	[R ]	
Vimar	20160	[RC ]	
Vimar	20162	[RL ]	40 – 300W
Philips Dynalite	DDLE801		(100W per channel)
Philips Dynalite	DDTM102 Module		(460 W per channel)

LED bulb/candle/luster					
NEW			NEW		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1-3	87%~3%		1-3	87%~3%	
1-3	90%~3%		1-3	90%~3%	
	N.A.	N.A.		N.A.	N.A.
1-3	93%~3%		1-3	93%~3%	
1-3	90%~3%		1-3	90%~3%	
1-3	92%~3%		1-3	92%~3%	
1-3	94%~8%		1-3	94%~8%	
1-3	86%~3%		1-3	86%~3%	
1-3	91%~4%		1-3	91%~4%	
1-3	88%~3%		1-3	88%~3%	
1-3	93%~3%		1-3	93%~3%	
1-3	89%~3%		1-3	89%~3%	
1-3	88%~3%		1-3	88%~3%	
1-3	93%~3%		1-3	93%~3%	
1-3	89%~3%		1-3	89%~3%	
1-3	93%~5%		1-3	93%~5%	
1-3	86%~3%		1-3	86%~3%	
1-3	98%~3%		1-3	98%~3%	
1-3	98%~3%		1-3	98%~3%	
1-3	98%~3%		1-3	98%~3%	
1-3	93%~3%		1-3	93%~3%	
1-3	87%~7%		1-3	87%~7%	
1-3	82%~4%		1-3	82%~4%	
		N.A.			N.A.
1-3	96%~3%		1-3	96%~3%	
	N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.
1-3	95%~3%		1-3	95%~3%	
1-3	88%~17%		1-3	88%~17%	
	N.A.	N.A.		N.A.	N.A.
1-3	88%~3%		1-3	88%~3%	
1-3	93%~3%		1-3	93%~3%	
1-3	89%~3%		1-3	89%~3%	
	N.A.	N.A.		N.A.	N.A.
1-3	85%~3%		1-3	85%~3%	
1-3	88%~3%		1-3	88%~3%	
1-3	88%~3%		1-3	88%~3%	
1-3	98%~4%		1-3	98%~4%	
1-3	88%~4%		1-3	88%~4%	
1-3	86%~3%		1-3	86%~3%	
1-3	93%~3%		1-3	93%~3%	
1-3	93%~3%		1-3	93%~3%	
1-3	88%~3%		1-3	88%~3%	
1-3	93%~3%		1-3	93%~3%	
1-3	91%~5%		1-3	91%~5%	
	N.A.	N.A.		N.A.	N.A.
1-3	88%~3%	<4	1-3	88%~3%	<4
1-3	92%~3%		1-3	92%~3%	
	N.A.	N.A.		N.A.	N.A.
1-3	98%~3%		1-3	98%~3%	
	N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.
1-3	95%~3%		1-3	95%~3%	
1-3	98%~3%		1-3	98%~3%	

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