

Professional LED lamps MV range

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



KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W - Turn
Berker INSTA	283010	[R]	60 – 400 W - Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U - 503	[R]	60 – 400 W - Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	40 – 420 W - Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA - LED - Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA - LED - Push (2wire)
ELKO Schneider	SBD200LED (CCTELI0501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTELI3011)	[RLC]	420 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCHI0601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W - Turn
Jung	1271LEDDE	[LED]	3 – 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W - Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W - Turn
Legrand	67082	[RL]	40 – 600 W - Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK - Electric	K1535	[R]	65 – 450 W - Turn
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn
MK - Electric	K4501 WHILV	[RLC]	180 W
MK - Electric	K4500 WHILV	[RLC]	400 W
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	RMO545	[LED]	4 - 100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60 – 400 W
Varilight	ICT401 M	[RC]	20 – 400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LED spot											
Master LEDexpertcolor MV D 3.9-35W GU10 CRI97			Master LEDexpertcolor MV D 5.5-50W GU10 CRI97			Master LEDspot classic MV DimTone 4.5-35W GU10			Master LEDspot classic 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
2-5 (max18)	88%–7%		2-5 (max9)	91%–5%		2-18	92%–7%		2-13	92%–6%	
2-5 (max20)	93%–6%		2-3	95–5%		2-18	93%–5%		2-15	94%–4%	
	N. A.	N. A.		N. A.	N. A.		N. A.	N. A.		N. A.	N. A.
2-5 (max20)	83%–17%		2-5 (max14)	94%–17%		2-18	92%–6%		2-15	96%–5%	
2-5 (max20)	95%–3%		2-5 (max14)	95%–3%		2-20	92%–3%		2-18	96%–3%	
2-5 (max25)	93%–3%		2-5 (max18)	96%–3%		2-20	91%–3%		2-20	97%–3%	
2-5 (max21)	92%–4%		2-5 (max15)	94%–6%		2-19	95%–6%		2-15	96%–6%	
2-5 (max25)	92%–4%		2-5 (max18)	91%–3%		2-20	89%–3%		2-18	93%–3%	
2-19	92%–3%		2-20	90%–3%		2-20	96%–4%		2-18	97%–6%	
2-5 (max10)	89%–11%		2-5 (max7)	90%–8%		2-18	91%–7%		2-15	97%–4%	
2-5 (max16)	88%–3%		2-5 (max11)	91%–3%		2-14	92%–3%		T.B.D.	T.B.D.	T.B.D.
2-5 (max21)	94%–3%		2-5 (max15)	96%–3%		2-19	93%–3%		T.B.D.	T.B.D.	T.B.D.
2-19	98%–3%		2-16	93%–3%		2-18	98%–3%		2-15	98%–4%	< 16
2-5 (max10)	89%–11%		2-5 (max7)	90%–8%		2-18	91%–7%		2-15	97%–4%	
2-5 (max16)	88%–3%		2-5 (max11)	91%–3%		2-14	92%–3%		T.B.D.	T.B.D.	T.B.D.
2-5 (max21)	94%–3%		2-5 (max15)	96%–3%		2-19	93%–3%		T.B.D.	T.B.D.	T.B.D.
2-19	91%–12%		2-17	92%–13%		2-19	96%–10%		2-15	95%–8%	
2-5 (max25)	86%–24%		2-5 (max18)	91%–25%		2-15	96%–6%		2-16	91%–4%	
2-15	96%–10%		2-12	91%–9%		2-13	98%–3%	< 12	2-11	98%–5%	< 12
2-15	96%–9%		2-12	92%–6%		2-13	98%–4%	< 12	2-11	97%–5%	< 12
2-19	96%–10%		2-20	91%–6%		2-20	98%–3%		2-18	97%–5%	
2-5 (max26)	91%–3%		2-5 (max19)	93%–11%		2-20	92%–7%		2-16	93%–7%	
2-5 (max25)	89%–3%		2-5 (max18)	92%–3%		2-20	89%–11%		2-16	91%–3%	
3-6	72%–17%		2-5	76%–18%		2-5	88%–3%			N. A.	N. A.
2-15	89%–3%		2-12	83%–3%		2-13	90%–3%		2-11	91%–4%	
5	95%–3%			N. A.	N. A.		N. A.	N. A.		N. A.	N. A.
2-19	91%–3%		2-16	88%–3%		2-18	78%–3%	< 3	2-15	95%–3%	< 3
3-5 (max20)	93%–3%		2-5 (max14)	96%–3%			N. A.	N. A.		N. A.	N. A.
5	95%–5%		3-5 (max14)	96%–3%			N. A.	N. A.		N. A.	N. A.
3-4	86%–3%		2-3	80%–3%		2-3	90%–1%			N. A.	N. A.
2-5 (max15)	93%–3%		2-5 (max10)	93%–3%		2-18	94%–4%			N. A.	N. A.
2-5 (max15)	97%–3%		2-5 (max10)	98%–3%			N. A.	N. A.	2-11	98%–3%	
3-19	86%–11%		2-20	81%–13%		10-20	88%–4%		5-18	88%–7%	
2-5 (max10)	89%–11%		2-5 (max7)	90%–8%		2-18	91%–7%		2-15	97%–4%	
2-5 (max16)	88%–3%		2-5 (max11)	91%–3%		2-14	92%–3%		T.B.D.	T.B.D.	T.B.D.
2-5 (max21)	94%–3%		2-5 (max15)	96%–3%		2-19	93%–3%		T.B.D.	T.B.D.	T.B.D.
2-5 (max23)	71%–3%		2-5 (max16)	80%–4%		2-20	83%–4%		2-16	84%–5%	
2-5 (max25)	77%–3%		2-5 (max18)	87%–3%		2-20	88%–4%		2-16	89%–5%	
2-11	84%–3%		2-9	80%–3%		2-10	90%–2%		2-9	90%–4%	
2-16	86%–3%		2-13	80%–3%		2-14	89%–2%		2-15	89%–4%	
2-5	96%–3%		2-4	91%–3%		2-4	97%–3%		2-4	99%–2%	
2-6	80%–3%		2-5	80%–3%		2-5	90%–3%		2-4	88%–3%	
2-5 (max25)	92%–4%		2-5 (max18)	91%–3%		2-20	89%–3%		2-18	93%–3%	
2-5	96%–16%		2-4	93%–15%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
2-5	88%–3%		2-4	82%–3%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
2-5 (max16)	88%–3%		2-5 (max11)	91%–3%		2-14	92%–3%		T.B.D.	T.B.D.	T.B.D.
2-5 (max16)	88%–3%		2-5 (max11)	91%–3%		2-14	92%–3%		T.B.D.	T.B.D.	T.B.D.
2-5 (max10)	89%–11%		2-5 (max7)	90%–8%		2-18	91%–7%		2-15	97%–4%	
2-5 (max16)	88%–3%		2-5 (max11)	91%–3%		2-14	92%–3%		2-11	92%–3%	
2-18	86%–10%		2-14	82%–11%		2-16	92%–6%		2-13	91%–8%	
2-16	92%–5%		2-13	86%–3%		8-14	95%–4%	< 15	3-11	93%–6%	< 12
2-13	70%–3%		2-10	68%–3%		2-11	89%–3%	< 12	2-9	85%–3%	< 10
2-5 (max20)	91%–3%		2-5 (max14)	92%–3%		3-18	91%–3%		2-15	96%–3%	
2-19	75%–3%		2-16	83%–3%		2-18	95%–1%		2-15	93%–2%	
2-5 (max25)	93%–3%	< 6	2-5 (max18)	94%–3%	< 5	2-20	93%–4%	< 4	2-16	95%–4%	< 17
2-19	99%–3%		2-20	95%–3%		2-20	98%–3%		2-18	99%–3%	
2-15	90%–3%		2-12	87%–3%		2-13	94%–1%	< 14	2-18	96%–3%	< 17
2-5 (max15)	91%–3%	< 6	2-5 (max10)	90%–3%	< 6	2-13	91%–3%	< 10	2-11	90%–4%	< 12
2-5	79%–3%		2-5	90%–3%		T.B.D.	T.B.D.	T.B.D.	5-16	92%–3%	
2-5 (max20)	87%–3%		2-5 (max16)	90%–3%		T.B.D.	T.B.D.	T.B.D.	2-16	92%–3%	

Note :

#1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)

#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 with the indicated dimmer will be somewhere between 10%-30%

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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



Professional LED lamps MV range

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



KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W – Turn
Berker INSTA	283010	[R]	60 – 400 W – Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U – 503	[R]	60 – 400 W – Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W – Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W – Turn
Busch Jaeger ABB	6513 U – 102	[RC]	40 – 420 W – Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA – LED – Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA – LED – Push (2wire)
ELKO Schneider	SBD200LED (CCTELI0501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTELI3011)	[RLC]	420 W
Eltako	EVD6INPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W – Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W – Turn
Jung	1271LEDDE	[LED]	3 – 100W – Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W – 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W – Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W – Turn
Legrand	67082	[RL]	40 – 600 W – Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA – Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA – Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK – Electric	K1535	[R]	65 – 450 W – Turn
MK – Electric	K1501 WHILV	[R]	60 – 500 W – Turn
MK – Electric	K4501 WHILV	[RLC]	180 W
MK – Electric	K4500 WHILV	[RLC]	400 W
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	RMO545	[LED]	4 – 100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA – Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60 – 400 W
Varilight	ICT401 M	[RC]	20 – 400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LED spot											
Classic LEDspot MV 4.4-50W GU10			Classic LEDspot MV 5.5-50W GU10			Master LEDspot VLE DimTone D 3.7-35W GU10 CRI90			Master LEDspot VLE DimTone D 4.9-50W GU10 CRI90		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
2-20	91%-25%		2-15	85%-19%		2-8 (max 19)	94%-8%		2-8 (max 14)	92%-3%	
2-20	95%-24%		2-15	88%-19%		2-8 (max 21)	87%-3%		2-8 (max 16)	93%-3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
2-18	93%-19%		2-15	89%-17%		2-8 (max 21)	86%-4%		2-8 (max 16)	92%-3%	
2-20	93%-10%		2-18	97%-6%		2-8 (max 21)	86%-3%		2-8 (max 16)	94%-3%	
2-20	96%-7%		2-20	98%-4%		2-8 (max 27)	89%-3%		2-8 (max 20)	94%-3%	
2-20	94%-23%		2-15	87%-20%		2-8 (max 22)	86%-4%		2-8 (max 17)	94%-3%	
2-20	90%-2%		2-20	93%-17%		2-8 (max 27)	89%-3%		2-8 (max 20)	89%-3%	
2-20	96%-24%		2-18	96%-18%		2-20	95%-6%		2-20	91%-5%	
2-20	92%-29%		2-15	85%-23%			N.A.	N.A.	2-8	92%-3%	
2-14	91%-6%		2-11	91%-5%		3-8 (max 17)	95%-3%		2-8 (max 12)	92%-3%	
2-19	94%-14%		2-15	97%-13%			N.A.	N.A.	3-8 (max 17)	95%-3%	
2-14	99%-15%	< 19	2-15	99%-14%	< 16	2-20	94%-10%		2-16	96%-3%	
2-20	92%-29%		2-15	85%-23%			N.A.	N.A.	2-8	92%-3%	
2-14	91%-6%		2-11	91%-5%		3-8 (max 17)	95%-3%		2-8 (max 12)	92%-3%	
2-19	94%-14%		2-15	97%-13%			N.A.	N.A.	3-8 (max 17)	95%-3%	
2-19	94%-36%		2-15	95%-32%		2-20	94%-11%		2-17	94%-9%	
2-13	97%-13%		2-18	90%-14%		3-8 (max 27)	90%-3%		3-8 (max 20)	91%-3%	
2-14	97%-19%	< 6	2-11	97%-16%	< 12	2-16	98%-8%		2-12	94%-7%	
2-14	98%-19%	< 5	2-11	97%-16%	< 12	2-16	98%-8%		2-12	94%-7%	
2-20	98%-19%		2-18	97%-16%		2-20	98%-8%		2-20	95%-7%	
2-20	92%-26%		2-15	87%-22%		2-8 (max 28)	96%-8%		2-8 (max 21)	91%-3%	
2-20	93%-37%		2-20	88%-35%		2-8 (max 27)	91%-3%		2-8 (max 20)	91%-3%	
2-5	88%-3%		2-4	87%-37%		2-6	84%-11%		2-5	80%-11%	
2-14	93%-3%			N.A.	N.A.	2-16	99%-3%		2-12	87%-3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	2-8 (max 16)	95%-3%	< 4
2-18	96%-3%	< 3	2-15	92%-16%	< 3	2-20	93%-4%		2-16	91%-3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8 (max 16)	95%-3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8 (max 24)	94%-3%	
2-3	89%-12%			N.A.	N.A.	2-20	89%-3%		2-16	85%-2%	
2-18	98%-20%		2-15	88%-15%		2-8 (max 16)	96%-4%	< 3	2-8 (max 12)	93%-3%	< 4
	N.A.	N.A.	2-11	99%-3%		2-8 (max 16)	99%-3%		2-8 (max 12)	95%-3%	
8-20	91%-30%		3-18	86%-28%		3-20	87%-10%		2-20	84%-8%	
2-20	92%-29%		2-15	85%-23%			N.A.	N.A.	2-8	92%-3%	
2-14	91%-6%		2-11	91%-5%		3-8 (max 17)	95%-3%		2-8 (max 12)	92%-3%	
2-19	94%-14%		2-15	97%-13%			N.A.	N.A.	3-8 (max 17)	95%-3%	
3-20	85%-20%		2-15	77%-15%		2-8 (max 24)	52%-3%		2-8 (max 18)	70%-3%	
3-20	89%-19%		2-18	81%-17%		2-8 (max 27)	80%-3%		2-8 (max 20)	87%-3%	
3-10	89%-19%		2-8	90%-19%		2-12	86%-4%		2-9	86%-4%	
3-15	90%-20%		2-15	88%-19%		2-20	86%-5%		2-13	86%-4%	
2-5	97%-8%		2-4	97%-7%		2-5	99%-3%		2-4	95%-3%	
2-5	89%-10%		2-4	87%-10%		2-6	85%-3%		2-5	84%-3%	
2-20	90%-3%		2-20	93%-17%		2-8 (max 27)	89%-3%		2-8 (max 20)	89%-3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-5	99%-13%		2-4	75%-11%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-5	90%-10%		2-4	87%-4%	
2-14	91%-6%		2-11	91%-5%		3-8 (max 17)	95%-3%		2-8 (max 12)	92%-3%	
2-14	91%-6%		2-11	91%-5%		3-8 (max 17)	95%-3%		2-8 (max 12)	92%-3%	
2-20	92%-29%		2-15	85%-23%			N.A.	N.A.	2-8	92%-3%	
2-14	91%-6%		2-11	91%-5%		3-8 (max 17)	95%-3%		2-8 (max 12)	92%-3%	
2-16	93%-34%		2-13	88%-29%		2-20	88%-10%		2-14	85%-8%	
8-14	95%-24%	< 15	3-11	97%-21%	< 12	3-17	93%-6%		2-13	90%-5%	
2-11	89%-11%	< 12	2-9	89%-9%	< 10	2-14	84%-3%	< 15	2-10	77%-3%	< 11
2-18	98%-14%		2-15	88%-8%		2-8 (max 21)	85%-3%		2-8 (max 16)	92%-3%	
2-18	94%-10%		2-15	92%-7%		2-20	84%-3%		2-16	79%-3%	
2-20	94%-17%		2-18	88%-16%	< 4	2-8 (max 27)	87%-3%	< 8	3-8 (max 20)	92%-3%	< 9
2-20	98%-3%		2-18	97%-9%		2-20	99%-3%		2-20	97%-3%	
2-14	94%-13%	< 15	2-18	94%-12%	< 19	2-20	86%-5%		2-12	89%-3%	< 13
3-13	93%-14%		2-11	84%-11%	< 4	2-8 (max 16)	94%-4%	< 8	2-8 (max 12)	92%-3%	< 9
T.B.D.	T.B.D.	T.B.D.	2-18	88%-9%		2-8	90%-3%		2-8	89%-3%	
T.B.D.	T.B.D.	T.B.D.	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 lightsources. (e.g. flickering where "active loads" can reduce your problems)

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

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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

Professional LED lamps MV range

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



KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W-Turn
Berker INSTA	283010	[R]	60 – 400 W-Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U-503	[R]	60 – 400 W-Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W-Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W-Turn
Busch Jaeger ABB	6513 U-102	[RC]	40 – 420 W-Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA-LED-Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)
ELKO Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W-Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W-Turn
Jung	1271LEDDE	[LED]	3 – 100W-Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W-3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W-Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W-Turn
Legrand	67082	[RL]	40 – 600 W-Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK-Electric	K1535	[R]	65 – 450 W-Turn
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn
MK-Electric	K4501 WHILV	[RLC]	180 W
MK-Electric	K4500 WHILV	[RLC]	400 W
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]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA-Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60-400 W
Varilight	ICT401 M	[RC]	20-400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LED spot											
Master LEDspot VLE Dim D 3.7-35W GU10 CRI90			Master LEDspot VLE Dim D 4.9-50W GU10 CRI90			Master LEDspot MV Value 3.5-35W GU10			Master LEDspot MV Value 5-50W GU10		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
2-5 (max 19)	96%–31%		2-5 (max 14)	93%–26%		2-21	92%–22%		2-10	90%–20%	
2-5 (max 21)	88%–16%		2-5 (max 16)	98%–23%		2-23	95%–14%		2-10	94%–8%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
3-5 (max 21)	88%–31%		2-5 (max 16)	92%–34%		2-23	95%–17%	< 2	2-10	94%–16%	< 2
2-5 (max 21)	87%–6%		2-5 (max 16)	95%–9%		2-29	95%–3%		2-10	92%–3%	
2-5 (max 27)	91%–4%		2-5 (max 20)	98%–5%		2-34	95%–3%		2-10	92%–3%	
2-5 (max 22)	98%–23%		2-5 (max 17)	96%–21%		2-24	96%–22%		2-10	96%–20%	
2-5 (max 27)	90%–3%		2-5 (max 20)	93%–3%		2-20	90%–3%		2-10	92%–3%	
2-20	92%–17%	< 5	2-20	95%–16%		2-20	87%–33%	< 3	2-20	89%–29%	
	N.A.	N.A.	2-5	93%–28%		2-23	91%–23%		2-10	88%–20%	
3-5 (max 17)	96%–9%		2-5 (max 12)	94%–7%		2-18	94%–5%		2-10	88%–3%	
	N.A.	N.A.	2-5 (max 17)	97%–15%			N.A.	N.A.		N.A.	N.A.
2-20	98%–11%		2-16	99%–10%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
	N.A.	N.A.	2-5	93%–28%		2-23	91%–23%		2-10	88%–20%	
3-5 (max 17)	96%–9%		2-5 (max 12)	94%–7%		2-18	94%–5%		2-10	88%–3%	
	N.A.	N.A.	2-5 (max 17)	97%–15%			N.A.	N.A.		N.A.	N.A.
2-20	90%–29%	< 9	2-17	93%–27%		2-20	96%–31%		2-20	94%–27%	
3-8 (max 27)	91%–15%	< 3	2-5 (max 20)	91%–14%		2-29	91%–10%	< 2	2-10	92%–8%	
2-16	96%–22%	< 10	2-12	98%–21%		2-17	96%–13%	< 3	2-14	98%–13%	< 2
2-16	96%–22%	< 11	2-12	97%–21%		2-17	98%–13%	< 3	2-14	98%–13%	< 7
2-20	95%–22%	< 11	2-20	99%–21%		2-20	98%–16%	< 19	2-20	98%–13%	< 8
2-5 (max 28)	94%–33%		2-5 (max 21)	93%–28%		2-30	94%–25%		2-10	92%–24%	
2-5 (max 27)	89%–13%		2-5 (max 20)	93%–13%		2-29	91%–38%	< 2	2-10	92%–36%	
	82%–30%	< 7	2-5	84%–32%		2-7	84%–29%	< 3	2-6	81%–28%	< 7
	89%–14%	< 7		90%–14%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-10	92%–8%	< 4
2-20	91%–14%		2-16	93%–11%	< 3	2-20	93%–13%	< 5	2-19	93%–13%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-10	96%–16%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
	83%–11%			96%–10%				N.A.		89%–10%	
2-5 (max 16)	96%–22%	< 5	2-5 (max 12)	95%–18%	< 3	2-23	90%–6%	< 4	2-10	88%–3%	< 5
2-5 (max 16)	97%–3%		2-5 (max 12)	98%–3%		2-17	97%–3%		2-10	96%–3%	
5-20	88%–28%		2-20	93%–28%		10-20	84%–24%		5-20	83%–25%	
	N.A.	N.A.	2-5	93%–28%		2-23	91%–23%		2-10	88%–20%	
3-5 (max 17)	96%–9%		2-5 (max 12)	94%–7%		2-18	94%–5%		2-10	88%–3%	
	N.A.	N.A.	2-5 (max 17)	97%–15%			N.A.	N.A.		N.A.	N.A.
2-8 (max 24)	71%–15%		2-8 (max 18)	85%–19%		2-26	83%–12%		2-10	80%–14%	
2-8 (max 27)	79%–17%		2-8 (max 20)	91%–18%		2-10	88%–14%		2-10	86%–14%	
2-12	85%–15%		2-9	86%–15%		3-13	87%–13%		2-10	85%–13%	
2-17	87%–15%		2-13	87%–15%			87%–13%		2-15	85%–13%	
2-5	96%–6%		2-4	96%–5%		2-6	98%–24%		2-5	97%–23%	
2-6	84%–6%		2-5	86%–7%		2-7	87%–31%		2-6	85%–29%	
2-5 (max 27)	90%–3%		2-5 (max 20)	93%–3%		2-20	90%–3%		2-10	92%–3%	
2-5	97%–32%		2-4	97%–29%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
2-5	88%–15%		2-4	89%–14%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
3-5 (max 17)	96%–9%		2-5 (max 12)	94%–7%		2-18	94%–5%		2-10	88%–3%	
3-5 (max 17)	96%–9%		2-5 (max 12)	94%–7%		2-18	94%–5%		2-10	88%–3%	
	N.A.	N.A.	2-5	93%–28%		2-23	91%–23%		2-10	88%–20%	
3-5 (max 17)	96%–9%		2-5 (max 12)	94%–7%		2-18	94%–5%		2-10	88%–3%	
2-19	89%–29%		2-14	87%–25%		2-20	91%–29%		2-15	88%–27%	
3-17	92%–18%	< 18	2-13	93%–17%	< 14	10-18	93%–20%		2-15	93%–17%	< 11
3-14	83%–9%	< 15	2-10	83%–7%	< 11	2-14	89%–20%		2-12	83%–8%	< 11
2-5 (max 21)	84%–8%		2-5 (max 16)	97%–11%		2-23	92%–8%		2-10	92%–6%	
2-20	83%–3%	< 7	2-16	84%–3%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
3-8 (max 27)	85%–17%	< 6	3-5 (max 20)	95%–17%	< 6	2-29	95%–16%	< 30	3-10	92%–8%	< 11
	97%–4%		< 6	99%–3%			98%–3%		2-20	98%–3%	
3-16	91%–11%	< 17	2-12	96%–9%	< 13	2-17	91%–9%		2-14	92%–8%	< 11
3-8 (max 16)	92%–25%	< 6	2-5 (max 12)	94%–18%	< 6	2-17	91%–13%	< 18	2-10	88%–8%	< 11
2-8	88%–8%		2-8	93%–9%		2-20	91%–9%		2-20	88%–8%	
2-8 (max 24)	92%–3%		2-8 (max 18)	95%–5%		2-20	93%–4%		2-20	97%–4%	

Note :

#1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the dimmers can be loaded with more lamps than is specified in this document (most dimmers can be loaded with LED lamps to 20% of specified power; LED dimmers can be loaded to specified power)

#2) Occupancy sensors can act like dimmers, therefore Philips recommend to use dimmable lamps in combination with it.

#3) Glowing means: a switched off dimmer still having the possibility that a small light output is visible. This status can occur when a low quantity of lamps is connected.

#4) Yellow cells indication: Sometimes flickering is observed due to low dimmer loads, best visible at deep dimming

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

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

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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



Professional LED lamps MV range

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



KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W-Turn
Berker INSTA	283010	[R]	60 – 400 W-Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U-503	[R]	60 – 400 W-Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W-Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W-Turn
Busch Jaeger ABB	6513 U-102	[RC]	40 – 420 W-Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA-LED-Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA-LED-Push (2wire)
ELKO Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W-Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W-Turn
Jung	1271LEDDE	[LED]	3 – 100W-Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W-Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W-Turn
Legrand	67082	[RL]	40 – 600 W-Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK-Electric	K1535	[R]	65 – 450 W-Turn
MK-Electric	K1501 WHILV	[R]	60 – 500 W-Turn
MK-Electric	K4501 WHILV	[RLC]	180 W
MK-Electric	K4500 WHILV	[RLC]	400 W
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	RMO545	[LED]	4-100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA-Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60-400 W
Varilight	ICT401 M	[RC]	20-400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LED spot											
Master LEDspot MV 4-35W GU10 CRI90			Master LEDspot MV 5.4-50W GU10 CRI90			Corepro LEDspot MV 4-35W GU10 Dim			Corepro LEDspot MV 5-50W GU10 Dim		
						NEW			NEW		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
2-18	91%-3%		2-13	93%-3%		2-8	94%- 8%		2-8	92%- 3%	
2-20	93%-3%		2-15	96%-3%		2-8	87%- 3%		2-8	93%- 3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
2-20	92%-3%		2-15	97%-3%		2-8	86%- 4%		2-8	92%- 3%	
2-25	93%-3%		2-19	97%-3%		2-8	86%- 3%		2-8	94%- 3%	
2-30	95%-3%		2-22	98%-3%		2-8	89%- 3%		2-8	94%- 3%	
2-21	94%-3%			N.A.		2-8	96%- 4%		2-8	94%- 3%	
2-20	90%-3%		2-19	92%-3%		2-8	89%- 3%		2-8	89%- 3%	
2-20	89%-3%		2-19	88%-9%		2-20	93%- 3%		2-20	94%- 3%	
2-20	90%-3%		2-15	93%-3%			N.A.	N.A.	2-8	92%- 3%	
2-16	90%-3%		2-12	89%-3%		3- 8	95%- 3%		2-8	92%- 3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8	95%- 3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-20	99%- 3%		2-16	99%- 3%	
2-20	90%-3%		2-15	93%-3%			N.A.	N.A.	2-8	92%- 3%	
2-16	90%-3%		2-12	89%-3%		3- 8	95%- 3%		2-8	92%- 3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8	95%- 3%	
2-20	93%-3%		2-16	91%-3%		2-20	93%- 3%		2-16	94%- 3%	
2-25	90%-3%		2-19	94%-3%		2-8	91%- 3%		T.B.D.	T.B.D.	T.B.D.
2-15	93%-3%		2-11	97%-3%		2-17	98%- 5%		2-12	99%- 3%	
2-15	93%-3%		2-11	97%-3%		2-17	98%- 5%		2-12	99%- 3%	
2-20	93%-3%		2-19	97%-3%		2-17	98%- 5%		2-20	97%- 3%	
2-26	92%-3%		2-19	95%-3%		2-8	96%- 8%		2-8	91%- 3%	
2-25	90%-3%		2-19	95%-18%		2-8	91%- 3%		2-8	91%- 3%	
2-6	86%-3%		2-4	85%-3%		2-7	83%- 7%	<3	2-5	78%- 3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-17	80%- 3%		2-12	89%- 3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	2-8	94%- 3%	
2-20	89%-3%		2-15	91%-3%		2-20	95%- 3%		2-16	94%- 3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8	95%- 3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8	94%- 3%	
	89%-3%			89%-3%		2-20	84%- 3%		2-16	81%- 3%	
	N.A.	N.A.		N.A.	N.A.	2-8	96%- 4%	<3	2-8	93%- 3%	
2-15	98%-3%			N.A.		2-8	99%- 3%		2-8	95%- 3%	
4-20	82%-3%			85%-3%			N.A.	N.A.	3-20	78%- 3%	
2-20	90%-3%		2-15	93%-3%			N.A.	N.A.	2- 8	92%- 3%	
2-16	90%-3%		2-12	89%-3%		3- 8	95%- 3%		2- 8	92%- 3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3- 8	95%- 3%	
2-23	80%-3%		2-17	83%-3%			N.A.	N.A.	2-8	70%- 3%	
2-25	86%-3%		2-19	90%-3%		2-8	80%- 3%		2-8	87%- 3%	
2-11	86%-3%		2-18	85%-3%		2-13	78%- 3%		2-9	86%- 3%	
2-16	86%-3%		2-12	85%-3%		2-20	77%- 3%		2-16	83%- 3%	
2-5	89%-3%		2-5	97%-3%		2-6	98%- 3%		2-4	97%- 3%	
2-10	82%-3%		2-4	88%-6%		2-3	76%- 3%		2-5	81%- 3%	
2-20	90%-3%		2-19	92%-3%		2-8	89%- 3%		2-8	89%- 3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-6	97%- 9%		2-4	97%- 6%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-6	94%- 3%		2-4	92%- 3%	
2-16	90%-3%		2-12	89%-3%		3-8	95%- 3%		2- 8	92%- 3%	
2-16	90%-3%		2-12	89%-3%		3- 8	95%- 3%		2- 8	92%- 3%	
2-20	90%-3%		2-15	93%-3%			N.A.	N.A.	2- 8	92%- 3%	
2-16	90%-3%		2-12	89%-3%		3- 8	95%- 3%		2- 8	92%- 3%	
2-18	86%-3%		2-13	88%-3%		2-20	90%- 7%		2- 14	88%- 4%	
6-16	93%-3%		2-12	94%-3%			N.A.	N.A.	2- 13	93%- 3%	
2-13	86%-3%		2-9	85%-3%		2-14	91%- 3%		2-10	80%- 3%	<11
2-20	92%-3%		2-15	97%-3%		2-8	85%- 3%		2-8	93%- 3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-20	84%- 3%		2-16	86%- 3%	
3-25	93%-3%		2-19	94%-3%		2-8	87%- 3%	<9	3-8	92%- 3%	<9
2-20	93%-3%		2-19	97%-3%		2-8	97%- 3%		2-20	94%- 3%	
2-15	89%-3%		2-11	94%-3%		2-20	83%- 3%	<9	3-20	94%- 3%	<14
2-15	90%-3%		2-11	92%-3%		2-8	94%- 4%	<9	2-8	91%- 3%	<9
2-20	93%-3%		2-19	88%-3%		2-8	90%- 3%		2-8	89%- 3%	
2-20	93%-3%		2-17	91%-3%		2-8	94%- 3%		2-8	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 lightsources. (e.g. flickering where "active loads" can reduce your problems)

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

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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



Professional LED lamps MV range

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



KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W - Turn
Berker INSTA	283010	[R]	60 – 400 W - Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U - 503	[R]	60 – 400 W - Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	40 – 420 W - Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA - LED - Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA - LED - Push (2wire)
ELKO Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W - Turn
Jung	1271LEDDE	[LED]	3 – 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W - Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W - Turn
Legrand	67082	[RL]	40 – 600 W - Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK - Electric	K1535	[R]	65 – 450 W - Turn
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn
MK - Electric	K4501 WHILV	[RLC]	180 W
MK - Electric	K4500 WHILV	[RLC]	400 W
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	RMO545	[LED]	4 – 100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60 – 400 W
Varilight	ICT401 M	[RC]	20 – 400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LED spot											
Master LEDspot MV 5.5W-50W PAR20			Master LEDspot Classic D 6 - 50W PAR20			Master LEDspot MV 8.5W-75W PAR30S			Master LEDspot MV 9.5W-90W PAR30S		
			NEW								
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
3-13	86%-3%		1 - 10	91%-12%		1-8	92%-9%		1-5	91%-11%	
3-15	88%-3%		1 - 5	93%-6%		1-9	95%-10%		1-5	93%-9%	
T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
3-15	90%-10%		1 - 10	93%-6%		2-5	95%-18%		1-5	93%-14%	
3-18	89%-3%		1 - 14	92%-3%		1-12	94%-3%		1-5	93%-3%	
3-22	90%-3%		1 - 8	95%-3%		1-10	98%-3%		1-5	94%-3%	
3-15	92%-3%		1 - 15	92%-12%		1-10	94%-8%		1-5	93%-10%	
3-18	85%-3%		1 - 14	93%-3%		1-20	95%-3%		1-5	93%-3%	
T.B.D.	T.B.D.	T.B.D.	1 - 17	94%-10%		2-12	95%-9%		1-5	96%-9%	
3-15	88%-3%		1 - 10	92%-14%		1-9	93%-12%		1-5	92%-13%	
3-11	90%-3%		1 - 9	92%-4%		1-7	92%-3%		1-5	93%-3%	
3-15	90%-3%		1 - 12	94%-7%		1-10	94%-4%		1-5	99%-5%	
T.B.D.	T.B.D.	T.B.D.	1 - 13	98%-7%		2-9	98%-4%		T.B.D.	T.B.D.	T.B.D.
3-15	88%-3%		1 - 10	92%-14%		1-9	93%-12%		1-5	92%-13%	
3-11	90%-3%		1 - 9	92%-4%		1-7	92%-3%		1-5	93%-3%	
3-15	90%-3%		1 - 12	94%-7%		1-10	94%-4%		1-5	99%-5%	
T.B.D.	T.B.D.	T.B.D.	1 - 14	96%-17%		2-10	95%-15%		1-5	92%-15%	
3-18	90%-21%		1 - 10	93%-3%		1-12	95%-3%		1-5	90%-24%	
T.B.D.	T.B.D.	T.B.D.	1 - 10	98%-8%		2-7	97%-6%		1-5	92%-6%	
T.B.D.	T.B.D.	T.B.D.	1 - 10	98%-13%		2-7	96%-6%		1-5	92%-10%	
T.B.D.	T.B.D.	T.B.D.	1 - 17	98%-14%		2-12	97%-6%		1-5	93%-12%	
3-19	85%-3%		1 - 15	98%-13%		2-12	93%-11%		1-5	92%-11%	
3-18	90%-21%		1 - 10	92%-3%		1-12	95%-3%		1-5	93%-3%	
T.B.D.	T.B.D.	T.B.D.	1 - 4	93%-19%		2-3	90%-19%		1-3	87%-18%	
T.B.D.	T.B.D.	T.B.D.	1 - 10	58%-3%		2-7	75%-3%		1-5	84%-3%	
	N.A.	N.A.	2 - 11	93%-6%		1-9	97%-7%			N.A.	N.A.
T.B.D.	T.B.D.	T.B.D.	1 - 13	94%-7%		2-9	93%-5%		1-5	91%-7%	
	N.A.	N.A.	2 - 9	94%-5%		1-7	98%-7%		1-5	98%-7%	
	N.A.	N.A.	2 - 15	94%-5%		1-2	97%-7%		1-5	99%-6%	
T.B.D.	T.B.D.	T.B.D.	1 - 3	94%-3%		2-9	92%-3%		1-5	88%-3%	
3-15	90%-3%		1 - 11	93%-8%		1-9	94%-5%		1-5	96%-6%	
3-11	95%-3%		1 - 9	97%-3%		1-7	98%-2%		1-5	96%-3%	
T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
3-15	88%-3%		1 - 10	92%-14%		1-9	93%-12%		1-5	92%-13%	
3-11	90%-3%		1 - 9	92%-4%		1-7	92%-3%		1-5	93%-3%	
3-15	90%-3%		1 - 12	94%-7%		1-10	94%-4%		1-5	99%-5%	
3-16	83%-3%		1 - 13	77%-7%		1-11	80%-8%		1-5	85%-7%	
3-18	83%-3%		1 - 15	96%-30%		1-12	92%-7%		1-5	98%-29%	
T.B.D.	T.B.D.	T.B.D.	1 - 7	92%-5%		2-5	99%-28%		1-5	99%-25%	
T.B.D.	T.B.D.	T.B.D.	1 - 11	99%-29%		2-9	99%-28%		1-5	99%-25%	
T.B.D.	T.B.D.	T.B.D.	1 - 3	96%-4%		T.B.D.	T.B.D.	T.B.D.	1-2	93%-3%	
T.B.D.	T.B.D.	T.B.D.	1 - 4	95%-3%		2-3	92%-3%		1-3	90%-3%	
3-18	85%-3%		1 - 14	93%-3%		1-20	95%-3%		1-5	93%-3%	
T.B.D.	T.B.D.	T.B.D.	1 - 3	99%-15%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
T.B.D.	T.B.D.	T.B.D.	1 - 3	92%-8%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
3-11	90%-3%		1 - 9	92%-4%		1-7	92%-3%		1-5	93%-3%	
3-11	90%-3%		1 - 9	92%-4%		1-7	92%-3%		1-5	93%-3%	
3-15	88%-3%		1 - 10	92%-14%		1-9	93%-12%		1-5	92%-13%	
3-11	90%-3%		1 - 9	92%-4%		1-7	92%-3%		1-5	93%-3%	
T.B.D.	T.B.D.	T.B.D.	1 - 12	93%-14%		2-8	90%-13%		1-5	86%-12%	
T.B.D.	T.B.D.	T.B.D.	1 - 11	95%-10%		2-7	94%-9%		1-5	89%-8%	
T.B.D.	T.B.D.	T.B.D.	1 - 14	96%-17%		2-6	82%-3%		1-5	78%-3%	
3-15	88%-3%		1 - 8	91%-5%		2-9	97%-6%		1-5	93%-3%	
T.B.D.	T.B.D.	T.B.D.	1 - 13	94%-5%		2-9	93%-10%		1-5	92%-3%	
3-18	89%-3%		1 - 14	92%-4%		1-12	95%-3%		1-5	97%-5%	
T.B.D.	T.B.D.	T.B.D.	1 - 15	99%-3%		2-12	99%-3%		2-5	97%-5%	
3-15	88%-3%	T.B.D.	1 - 10	95%-3%		2-12	93%-3%		1-5	90%-3%	
3-11	88%-3%		1 - 9	91%-7%		1-7	92%-4%		1-5	94%-5%	
T.B.D.	T.B.D.	T.B.D.	1 - 14	95%-3%		1-12	96%-3%		1-5	95%-3%	
T.B.D.	T.B.D.	T.B.D.	1 - 13	99%-3%		1-11	93%-2%		1-5	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 lightsources. (e.g. flickering where "active loads" can reduce your problems)

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

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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



Professional LED lamps MV range

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



KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W - Turn
Berker INSTA	283010	[R]	60 – 400 W - Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U - 503	[R]	60 – 400 W - Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	40 – 420 W - Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA - LED - Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA - LED - Push (2wire)
ELKO Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W - Turn
Jung	1271LEDDE	[LED]	3 – 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W - Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W - Turn
Legrand	67082	[RL]	40 – 600 W - Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK - Electric	K1535	[R]	65 – 450 W - Turn
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn
MK - Electric	K4501 WHILV	[RLC]	180 W
MK - Electric	K4500 WHILV	[RLC]	400 W
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	RMO545	[LED]	4 – 100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60 – 400 W
Varilight	ICT401 M	[RC]	20 – 400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LED spot											
Master LEDspot Classic 9.5 - 75W PAR30S			Master LEDspot MV 5.5W-60W PAR38			Master LEDspot Classic D 13 - 100W PAR38			Master LEDspot Classic D 13 - 100W PAR38		
NEW									NEW		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1 – 8	93%-12%		1-5	88%-3%		1-5	97%-3%		1 – 5	94%-13%	
1 – 8	96%-11%			N.A.	N.A.	5	96%-3%		1 – 5	96%-12%	
	N.A.	N.A.		N.A.	N.A.	1-3	59%-3%			N.A.	N.A.
1 – 8	95%-11%		2-5	90%-3%			N.A.	N.A.	1 – 8	97%-57%	
1 – 11	94%-3%		1-5	92%-3%		5	99%-3%		1 – 8	95%-3%	
1 – 13	96%-3%		2-5	94%-3%		5	98%-3%		1 – 9	96%-3%	
1 – 9	93%-12%		1-5	91%-3%		1-5	99%-3%		1	93%-12%	
1 – 11	95%-3%		1-5	90%-3%			N.A.	N.A.	1 – 15	96%-3%	
1 – 11	95%-12%		1-5	94%-3%		1-5	96%-3%		1 – 8	93%-11%	
1 – 8	92%-18%			N.A.	N.A.	1-5	98%-3%		1 – 5	93%-15%	
1 – 7	94%-4%		2-5	84%-3%		1-5	99%-3%		1 – 5	94%-4%	
1 – 9	96%-7%		1-5	92%-22%		1-5	98%-3%			N.A.	N.A.
1 – 9	88%-7%		1-5	84%-8%			N.A.	N.A.		N.A.	N.A.
1 – 9	97%-3%		1-5	88%-3%			N.A.	N.A.	1 – 5	94%-4%	
1 – 6	96%-6%			N.A.	N.A.		N.A.	N.A.	5	97%-9%	
1 – 6	96%-14%		1-5	98%-3%			N.A.	N.A.	5	97%-14%	
1 – 11	97%-14%		1-5	99%-3%			N.A.	N.A.	8	97%-14%	
1 – 11	93%-13%		1-5	91%-3%		1-5	97%-3%		1 – 8	92%-14%	
1 – 10	94%-3%		1-5	88%-3%			N.A.	N.A.	1 – 8	95%-3%	
1 – 3	89%-20%			N.A.	N.A.		N.A.	N.A.	1 – 2	92%-21%	
1 – 6	84%-3%			N.A.	N.A.		N.A.	N.A.	1 – 5	81%-3%	
1 – 8	96%-6%			N.A.	N.A.	5	97%-3%		1 – 6	97%-7%	
5 – 8	93%-8%		1-5	94%-3%			N.A.	N.A.		N.A.	N.A.
1 – 6	96%-3%			N.A.	N.A.		N.A.	N.A.	1 – 5	98%-7%	
1 – 13	96%-3%			N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
1 – 2	89%-3%			N.A.	N.A.		N.A.	N.A.	1 – 6	92%-3%	
1 – 8	94%-3%			N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
1 – 6	98%-3%		1-5	91%-3%		1-5	96%-3%			N.A.	N.A.
	N.A.	N.A.	3-5	88%-8%			N.A.	N.A.	2 – 3	91%-15%	
1 – 8	92%-18%			N.A.	N.A.	1-5	98%-3%		1 – 5	93%-15%	
1 – 7	94%-4%		2-5	84%-3%		1-5	99%-3%		1 – 5	94%-4%	
1 – 9	96%-7%		1-5	92%-22%		1-5	98%-3%			N.A.	N.A.
1 – 5	84%-5%			N.A.	N.A.		N.A.	N.A.	1 – 7	88%-10%	
1 – 7	84%-5%		1-5	86%-3%			N.A.	N.A.	1 – 8	93%-6%	
1 – 9	93%-8%		1-5	85%-3%			N.A.	N.A.	1 – 3	92%-8%	
1 – 11	93%-6%		1-5	86%-3%			N.A.	N.A.	1 – 6	91%-6%	
1 – 2	86%-4%		1-4	96%-3%			N.A.	N.A.	1 – 2	94%-5%	
1 – 3	86%-3%		1-4	86%-4%			N.A.	N.A.	1 – 2	91%-3%	
1 – 11	95%-3%		1-5	90%-3%			N.A.	N.A.	1 – 15	96%-3%	
1 – 2	89%-13%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	1 – 2	99%-17%	
1 – 2	83%-8%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	1 – 3	93%-9%	
1 – 7	94%-4%		2-5	84%-3%		1-5	99%-3%		1 – 5	94%-4%	
1 – 7	94%-4%		2-5	84%-3%		1-5	99%-3%		1 – 5	94%-4%	
1 – 8	92%-18%			N.A.	N.A.	1-5	98%-3%		1 – 5	93%-15%	
1 – 7	94%-4%		2-5	84%-3%		1-5	99%-3%		1 – 5	94%-4%	
1 – 7	82%-13%		1-5	87%-7%		1-5	90%-3%		1 – 5	90%-1%	
1 – 7	90%-10%			N.A.	N.A.		N.A.	N.A.	1 – 5	94%-11%	
1 – 5	88%-15		1-5	82%-3%			N.A.	N.A.		N.A.	N.A.
1 – 8	95%-4%		3-5	91%-3%			N.A.	N.A.	1 – 6	94%-5%	
1 – 8	89%-5%		1-5	85%-3%		1-5	98%-3%		1 – 6	93%-5%	
1 – 11	97%-3%		3-5	96%-4%			N.A.	N.A.	1 – 8	95%-5%	
1 – 11	89%-3%		1-5	97%-3%			N.A.	N.A.	1 – 8	96%-3%	
1 – 6	90%-3%		1-5	90%-3%			N.A.	N.A.	1 – 8	92%-3%	
1 – 6	96%-8%		1-5	89%-3%		1-5	98%-3%		1 – 5	35%-7%	
1 – 11	93%-3%			N.A.	N.A.		N.A.	N.A.	1 – 8	94%-3%	
1 – 9	96%-3%		1-5	90%-3%		1-5	99%-3%		1 – 7	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)

#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 with the indicated dimmer will be somewhere between 10%-30%

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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



Professional LED lamps MV range

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



KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W – Turn
Berker INSTA	283010	[R]	60 – 400 W – Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U – 503	[R]	60 – 400 W – Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W – Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W – Turn
Busch Jaeger ABB	6513 U – 102	[RC]	40 – 420 W – Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA – LED – Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA – LED – Push (2wire)
ELKO Schneider	SBD200LED (CCTELI0501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTELI3011)	[RLC]	420 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W – Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W – Turn
Jung	1271LEDDE	[LED]	3 – 100W – Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W – 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W – Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W – Turn
Legrand	67082	[RL]	40 – 600 W – Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA – Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA – Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK – Electric	K1535	[R]	65 – 450 W – Turn
MK – Electric	K1501 WHILV	[R]	60 – 500 W – Turn
MK – Electric	K4501 WHILV	[RLC]	180 W
MK – Electric	K4500 WHILV	[RLC]	400 W
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	RMO545	[LED]	4 – 100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA – Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60 – 400 W
Varilight	ICT401 M	[RC]	20 – 400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LED spot					
CorePro LEDspot MV 5W-60W R5			CorePro LEDspot MV -60W R63		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
2-10	90%-20%		2-15	97%-20%	
2-10	94%-8%		T.B.D.	T.B.D.	T.B.D.
	N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
2-10	94%-16%	< 2	2-15	97%-36%	< 16
2-10	92%-3%		2-20	98%-3%	
2-10	92%-3%		2-20	98%-3%	
2-10	96%-20%		2-15	98%-21%	
2-10	92%-3%		2-20	95%-3%	
1-16	95%-20%		T.B.D.	T.B.D.	T.B.D.
2-10	88%-20%		2-10	99%-26%	
2-10	88%-3%		2-10	97%-3%	
	N.A.	N.A.		N.A.	N.A.
1-16	97%-12%	<17	T.B.D.	T.B.D.	T.B.D.
2-10	88%-20%		2-10	99%-26%	
2-10	88%-3%		2-10	97%-3%	
	N.A.	N.A.		N.A.	N.A.
1-16	94%-30%		T.B.D.	T.B.D.	T.B.D.
2-10	92%-8%		2-19	95%-7%	
1-12	97%-14%	< 13	T.B.D.	T.B.D.	T.B.D.
1-12	96%-15%	< 13	T.B.D.	T.B.D.	T.B.D.
1-16	97%-15%	< 3	T.B.D.	T.B.D.	T.B.D.
2-10	92%-24%		2-20	98%-25%	
2-10	92%-36%		2-20	96%-46%	
1-5	79%-31%		T.B.D.	T.B.D.	T.B.D.
1-12	87%-14%		T.B.D.	T.B.D.	T.B.D.
3-10	92%-8%	< 4		N.A.	N.A.
1-16	95%-14%		3-10	97%-15%	
3-10	96%-16%		T.B.D.	T.B.D.	T.B.D.
	N.A.	N.A.	3-20	97%-14%	
2-16	90%-12%		T.B.D.	T.B.D.	T.B.D.
2-10	88%-3%	< 5	2-15	97%-3%	
2-10	96%-3%		2-11	99%-3%	
2-16	95%-20%		T.B.D.	T.B.D.	T.B.D.
2-10	88%-20%		2-10	99%-26%	
2-10	88%-3%		2-10	97%-3%	
	N.A.	N.A.		N.A.	N.A.
2-10	80%-14%		2-17	87%-16%	
2-10	86%-14%		2-19	93%-16%	
1-9	90%-17%		T.B.D.	T.B.D.	T.B.D.
1-16	89%-18%		T.B.D.	T.B.D.	T.B.D.
1-4	86%-6%		T.B.D.	T.B.D.	T.B.D.
1-5	89%-7%		T.B.D.	T.B.D.	T.B.D.
2-10	92%-3%		2-20	95%-3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
2-10	88%-3%		2-10	97%-3%	
2-10	88%-3%		2-10	97%-3%	
2-10	88%-20%		2-10	99%-26%	
2-10	88%-3%		2-10	97%-3%	
1-14	88%-27%		T.B.D.	T.B.D.	T.B.D.
2-13	95%-19%	< 14	T.B.D.	T.B.D.	T.B.D.
1-10	85%-9%	< 11	T.B.D.	T.B.D.	T.B.D.
2-10	92%-6%		2-15	99%-4%	
1-16	89%-6%		T.B.D.	T.B.D.	T.B.D.
3-10	92%-8%	< 11	2-19	96%-13%	< 4
1-16	99%-6%		T.B.D.	T.B.D.	T.B.D.
2-16	94%-11%	< 17	T.B.D.	T.B.D.	T.B.D.
2-10	88%-8%	< 11	2-11	97%-9%	< 5
T.B.D.	T.B.D.	T.B.D.	2-19	99%-3%	
T.B.D.	T.B.D.	T.B.D.	2-17	97%-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 with the indicated dimmer will be somewhere between 10%-30%

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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



Professional LED lamps MV range

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



KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W - Turn
Berker INSTA	283010	[R]	60 – 400 W - Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U – 503	[R]	60 – 400 W - Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W - Turn
Busch Jaeger ABB	6513 U – 102	[RC]	40 – 420 W - Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA – LED – Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA – LED – Push (2wire)
ELKO Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W - Turn
Jung	1271LEDDE	[LED]	3 – 100W – Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W – 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W - Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W - Turn
Legrand	67082	[RL]	40 – 600 W - Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA – Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA – Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK – Electric	K1535	[R]	65 – 450 W - Turn
MK – Electric	K1501 WHILV	[R]	60 – 500 W - Turn
MK – Electric	K4501 WHILV	[RLC]	180 W
MK – Electric	K4500 WHILV	[RLC]	400 W
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	RMO545	[LED]	4 – 100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA – Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60 – 400 W
Varilight	ICT401 M	[RC]	20 – 400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LED bulb											
Master LEDbulb clear 6W-40W DimTone			Master LEDbulb clear 8.5W-60W DimTone			Master LEDbulb 6 – 40W frosted DimTone			Master ledbulb 8.5 – 60W frosted DimTone		
						NEW			NEW		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1-3 (max 12)	87%–3%		1-3 (max 8)	98%–4%		1-3	98%–8%		1-3	94%–7%	
1-3 (max 13)	90%–3%		1-3 (max 9)	95%–3%		1-3	98%–7%		1-3	96%–5%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
1-3 (max 13)	93%–3%		1-3 (max 9)	94%–5%		1-3	97%–19%		1-3	94%–9%	
1-3 (max 13)	90%–3%		1-3 (max 9)	95%–3%		1-3	99%–3%		1-3	95%–3%	
1-3 (max 17)	92%–3%		1-3 (max 11)	95%–3%		1-3	97%–3%		1-3	97%–3%	
1-3 (max 14)	94%–8%		1-3 (max 9)	96%–5%		1-3	98%–7%		1-3	95%–6%	
1-3 (max 17)	86%–3%		1-3 (max 11)	89%–3%		1-3	83%–3%		1-3	89%–3%	
1-3 (max 17)	91%–4%		1-3 (max 11)	88%–5%		1-3	88%–10%		1-3	97%–6%	
1-3 (max 6)	88%–3%		1-3 (max 4)	90%–4%			N.A.	N.A.	2-3	93%–8%	
1-3 (max 11)	93%–3%		1-3 (max 7)	92%–3%		1-3	98%–3%		1-3	94%–2%	
1-3 (max 11)	89%–3%		1-3 (max 7)	95%–3%			N.A.	N.A.		N.A.	N.A.
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	1-3	98%–6%		1-3	99%–3%	
1-3 (max 6)	88%–3%		1-3 (max 4)	90%–4%			N.A.	N.A.	2-3	93%–8%	
1-3 (max 11)	93%–3%		1-3 (max 7)	92%–3%		1-3	98%–3%		1-3	94%–2%	
1-3 (max 11)	89%–3%		1-3 (max 7)	95%–3%			N.A.	N.A.		N.A.	N.A.
1-3 (max 14)	93%–5%		1-3 (max 9)	88%–5%		1-3	99%–19%			N.A.	N.A.
1-3 (max 17)	86%–3%		1-3 (max 11)	91%–3%		1-3	97%–31%		1-3	95%–17%	
1-3 (max 10)	98%–3%		1-3 (max 7)	93%–3%		1-3	98%–8%		1-3	99%–7%	
1-3 (max 10)	98%–3%		1-3 (max 7)	93%–3%		1-3	98%–12%		1-3	99%–6%	
1-3 (max 17)	98%–3%		1-3 (max 11)	93%–3%		1-3	99%–13%		1-3	99%–6%	
1-3 (max 18)	93%–3%		1-3 (max 12)	96%–5%		1-3	98%–9%		1-3	96%–8%	
1-3 (max 17)	87%–7%		1-3 (max 11)	91%–7%		1-3	97%–4%		T.B.D.	T.B.D.	T.B.D.
1-3 (max 4)	82%–4%		1-3 (max 2)	83%–5%			N.A.	N.A.	1-3	89%–8%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-3	96%–8%		1-3	96%–4%	
		N.A.		N.A.	N.A.		N.A.	N.A.	2-3	96%–5%	
1-3 (max 17)	96%–3%		1-3 (max 11)	93%–3%		1-3	98%–7%		1-3	97%–4%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	2-3	97%–5%	
	N.A.	N.A.		N.A.	N.A.	3	98%–5%		2-3	97%–5%	
	N.A.	N.A.	1-3 (max 9)	90%–3%			N.A.	N.A.	1-2	89%–3%	
1-3 (max 10)	95%–3%		1-3 (max 7)	95%–3%		2-3	99%–6%		1-3	98%–6%	
1-3 (max 10)	88%–17%		1-3 (max 7)	95%–3%		1-3	99%–3%		1-3	96%–3%	
	N.A.	N.A.	1-3 (max 11)	83%–5%		2-3	97%–13%		2-3	89%–6%	
1-3 (max 6)	88%–3%		1-3 (max 4)	90%–4%			N.A.	N.A.	2-3	93%–8%	
1-3 (max 11)	93%–3%		1-3 (max 7)	92%–3%		1-3	98%–3%		1-3	94%–2%	
1-3 (max 14)	89%–3%		1-3 (max 9)	95%–3%			N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.	1-3 (max 10)	80%–3%		1-3	99%–6%		1-3	84%–5%	
1-3 (max 17)	85%–3%		1-3 (max 11)	90%–3%		1-3	97%–6%		1-3	90%–5%	
1-3 (max 6)	88%–3%		1-3 (max 4)	83%–3%		1-3	96%–7%		1-3	90%–3%	
1-3 (max 13)	88%–3%		1-3 (max 9)	85%–3%		1-3	95%–7%		1-3	90%–3%	
1-3 (max 17)	98%–4%		1-3 (max 11)	95%–5%		1-3	98%–3%		1-2	99%–3%	
1-3 (max 10)	88%–4%		1-3 (max 7)	83%–5%		1-3	98%–21%		1-3	92%–3%	
1-3 (max 17)	86%–3%		1-3 (max 11)	89%–3%		1-3	83%–3%		1-3	89%–3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	1-3	96%–4%		1-2	99%–9%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	1-3	98%–8%		1-2	95%–4%	
1-3 (max 11)	93%–3%		1-3 (max 7)	92%–3%		1-3	98%–3%		1-3	94%–2%	
1-3 (max 11)	93%–3%		1-3 (max 7)	92%–3%		1-3	98%–3%		1-3	94%–2%	
1-3 (max 13)	88%–3%		1-3 (max 9)	90%–4%			N.A.	N.A.	2-3	93%–8%	
1-3 (max 11)	93%–3%		1-3 (max 7)	90%–4%		1-3	98%–3%		1-3	94%–2%	
1-3 (max 12)	91%–5%		1-3 (max 8)	85%–5%		1-3	99%–25%		1-3	94%–8%	
	N.A.	N.A.	1-3 (max 7)	93%–3%	<2		N.A.	N.A.		N.A.	N.A.
1-3 (max 8)	88%–3%	<4	1-3 (max 5)	83%–3%	<4	1-3	96%–6%		1-3	90%–3%	
1-3 (max 13)	92%–3%		1-3 (max 9)	99%–3%		1-3	96%–4%		1-3	96%–3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	1-3	97%–3%		1-3	88%–2%	
	N.A.	N.A.		N.A.	N.A.	1-3	97%–5%	<3	1-3	96%–4%	<2
1-3	98%–3%		1-3	98%–3%		2-3	98%–3%		1-3	95%–6%	
	N.A.	N.A.	1-3	93%–3%	<4	2-3	95%–3%	<2	1-3	96%–3%	<2
	N.A.	N.A.		N.A.	N.A.	1-3	98%–7%	<3	1-3	95%–9%	<2
1-3	95%–3%		1-3	93%–3%		1-3	96%–3%		1-3	93%–3%	
1-3	98%–3%		1-3	90%–3%		1-3	98%–3%		1-3	95%–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 with the indicated dimmer will be somewhere between 10%-30%

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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



Professional LED lamps MV range

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



KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W - Turn
Berker INSTA	283010	[R]	60 – 400 W - Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U - 503	[R]	60 – 400 W - Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W - Turn
Busch Jaeger ABB	6513 U - 102	[RC]	40 – 420 W - Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA - LED - Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA - LED - Push (2wire)
ELKO Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W - Turn
Jung	1271LEDDE	[LED]	3 – 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W - Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W - Turn
Legrand	67082	[RL]	40 – 600 W - Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK - Electric	K1535	[R]	65 – 450 W - Turn
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn
MK - Electric	K4501 WHILV	[RLC]	180 W
MK - Electric	K4500 WHILV	[RLC]	400 W
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	RMO545	[LED]	4 – 100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60 – 400 W
Varilight	ICT401 M	[RC]	20 – 400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LED bulb											
Master LEDbulb 11W-75W frosted DimTone			Master LEDbulb 15W-100W frosted DimTone			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
1-3	87%-10%		1-3	89%-9%		1-3	94%-3%		1-3	95%-3%	
1-3	93%-10%		1-3	91%-9%		1-3	96%-3%		1-3	92%-11%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
1-3	93%-17%		1-3	91%-22%		1-3	98%-9%		1-3	94%-15%	
1-3	93%-3%		1-3	93%-3%			N.A.	N.A.	1-3	95%-3%	
1-3	93%-3%		1-3	93%-3%		1-3	99%-3%		1-3	92%-3%	
1-3	93%-10%		1-3	91%-10%			98%-5%			92%-4%	
1-3	87%-3%		1-3	87%-3%		1-3	94%-3%		1-3	94%-3%	
1-3	98%-10%		1-3	98%-11%		1-3	91%-13%		1-3	92%-19%	
1-3	90%-10%		1-3	89%-10%		3	91%-3%		1-3	91%-7%	
1-3	87%-3%		1-3	84%-3%		1-3	93%-3%		1-3	98%-3%	
1-3	93%-7%		1-3	91%-4%		1-3	91%-3%		1-3	93%-3%	
1-3	97%-5%		1-3	97%-5%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
1-3	90%-10%		1-3	89%-10%		3	91%-3%		1-3	91%-7%	
1-3	87%-3%		1-3	84%-3%		1-3	93%-3%		1-3	98%-3%	
1-3	93%-7%		1-3	91%-4%		1-3	91%-3%		1-3	93%-3%	
1-3	93%-24%		1-3	93%-24%		1-3	93%-15%		1-3	93%-13%	
1-3	90%-3%		1-3	87%-4%		1-3	94%-3%		1-3	99%-3%	
1-3	97%-6%		1-3	97%-6%		1-3	97%-3%		1-3	97%-3%	
1-3	97%-6%		1-3	97%-6%		1-3	97%-3%		1-3	97%-3%	
1-3	97%-6%		1-3	97%-6%		1-3	97%-3%		1-3	97%-3%	
1-3	90%-10%		1-3	89%-9%		1-3	92%-8%		1-3	93%-7%	
1-3	87%-20%		1-3	89%-29%		1-3	95%-3%		1-3	93%-3%	
	N.A.	N.A.		N.A.	N.A.	1-3	84%-12%		1-3	87%-20%	
	N.A.	N.A.		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
1-3	94%-7%		1-3	94%-7%		1-3	93%-3%		1-3	93%-3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
1-3	93%-7%			N.A.	N.A.		98%-3%			92%-3%	
1-3	93%-3%		1-3	91%-3%			96%-3%			97%-3%	
1-3	86%-17%		1-3	86%-18%			N.A.	N.A.	2-3	87%-11%	
1-3	90%-10%		1-3	89%-10%		3	91%-3%		1-3	91%-7%	
1-3	87%-3%		1-3	84%-3%		1-3	93%-3%		1-3	98%-3%	
1-3	93%-7%		1-3	91%-4%		1-3	91%-3%		1-3	93%-3%	
1-3	80%-7%		1-3	82%-9%		1-3	82%-3%		1-3	84%-6%	
1-3	83%-7%			N.A.	N.A.	1-3	89%-3%		1-3	92%-3%	
1-3	85%-8%		1-3	85%-8%		1-3	87%-3%		1-3	88%-3%	
1-3	90%-9%		1-3	90%-9%		1-3	87%-3%		1-3	87%-3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	1-3	96%-4%		1-3	96%-5%	
1-3	87%-3%		1-3	87%-3%		1-3	85%-12%		1-3	89%-27%	
1-3	87%-3%		1-3	87%-3%		1-3	94%-3%		1-3	94%-3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
1-3	87%-3%		1-3	84%-3%		1-3	93%-3%		1-3	98%-3%	
1-3	87%-3%		1-3	84%-3%		1-3	93%-3%		1-3	98%-3%	
1-3	90%-10%		1-3	89%-10%		3	91%-3%		1-3	91%-7%	
1-3	87%-3%		1-3	84%-3%		1-3	93%-3%		1-3	98%-3%	
1-3	84%-23%		1-3	84%-23%		1-3	89%-16%		1-3	85%-11%	
1-3	96%-9%		1-3	96%-9%		1-3	92%-3%		1-3	92%-3%	
1-3	87%-3%		1-3	87%-3%		1-3	87%-3%		1-3	83%-3%	
1-3	90%-3%		1-3	91%-4%		1-3	95%-3%		1-3	95%-3%	
1-3	89%-3%		1-3	89%-3%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
1-3	93%-7%		1-3	91%-7%			N.A.	N.A.	1-3	94%-3%	
1-3	98%-3%		1-3	98%-3%		1-3	99%-3%		1-3	99%-3%	
1-3	92%-4%		1-3	92%-4%			N.A.	N.A.	1-3	92%-3%	
1-3	90%-7%		1-3	87%-4%		1-3	95%-5%		1-3	88%-3%	
1-3	90%-3%		1-3	89%-4%		1-3	92%-3%		1-3	95%-3%	
1-3	90%-3%		1-3	89%-3%		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 lightsources. (e.g. flickering where "active loads" can reduce your problems)

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

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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



Professional LED lamps MV range

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





KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W – Turn
Berker INSTA	283010	[R]	60 – 400 W – Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U – 503	[R]	60 – 400 W – Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W – Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W – Turn
Busch Jaeger ABB	6513 U – 102	[RC]	40 – 420 W – Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA – LED – Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA – LED – Push (2wire)
ELKO Schneider	SBD200LED (CCTELI0501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTELI3011)	[RLC]	420 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W – Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W – Turn
Jung	1271LEDDE	[LED]	3 – 100W – Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W – 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W – Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W – Turn
Legrand	67082	[RL]	40 – 600 W – Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA – Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA – Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK – Electric	K1535	[R]	65 – 450 W – Turn
MK – Electric	K1501 WHILV	[R]	60 – 500 W – Turn
MK – Electric	K4501 WHILV	[RLC]	180 W
MK – Electric	K4500 WHILV	[RLC]	400 W
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	RMO545	[LED]	4 – 100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA – Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60 – 400 W
Varilight	ICT401 M	[RC]	20 – 400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LED bulb					
CorePro LEDbulb 11.5W-75W			CorePro LEDbulb 16W-100W		
					
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1-3	90%–10%	T.B.D.	1-3	91%–9%	
1-3	94%–12%			N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.
1-3	92%–24%		1-3	94%–25%	
1-3	94%–3%		1-3	94%–3%	
1-3	96%–3%		1-3	94%–3%	
1-3	92%–10%		1-3	93%–9%	
1-3	82%–3%		1-3	90%–3%	
1-3	88%–23%		1-3	91%–25%	
1-3	88%–13%		1-3	90%–13%	
1-3	88%–3%		1-3	90%–3%	
1-3	92%–3%		1-3	94%–3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
1-3	88%–13%		1-3	90%–13%	
1-3	88%–3%		1-3	90%–3%	
1-3	92%–3%		1-3	94%–3%	
1-3	92%–20%		1-3	93%–19%	
1-3	90%–3%		1-3	91%–3%	
1-3	97%–3%		1-3	96%–4%	
1-3	95%–3%		1-3	95%–4%	
1-3	97%–5%		1-3	98%–4%	
1-3	90%–10%		1-3	91%–11%	
1-3	90%–28%		1-3	91%–26%	
1-3	83%–25%		1-3	85%–23%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
	N.A.	N.A.		N.A.	N.A.
1-3	92%–5%		1-3	94%–5%	
	N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.
	N.A.	N.A.		N.A.	N.A.
1-3	92%–5%		1-3	92%–5%	
1-3	94%–3%		1-3	94%–3%	
1-3	85%–17%		1-3	85%–16%	
1-3	88%–13%		1-3	90%–13%	
1-3	88%–3%		1-3	90%–3%	
1-3	92%–3%		1-3	94%–3%	
1-3	82%–10%		1-3	83%–9%	
1-3	78%–8%		1-3	88%–8%	
1-3	78%–8%		1-3	88%–8%	
1-3	78%–8%		1-3	88%–8%	
1-3	95%–13%		1-3	95%–13%	
1-3	88%–28%		1-3	88%–28%	
1-3	82%–3%		1-3	90%–3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
1-3	88%–3%		1-3	90%–3%	
1-3	88%–3%		1-3	90%–3%	
1-3	88%–13%		1-3	90%–13%	
1-3	88%–3%		1-3	90%–3%	
1-3	85%–17%		1-3	83%–15%	
1-3	90%–7%		1-3	91%–6%	
1-3	80%–3%		1-3	80%–3%	
1-3	94%–3%		1-3	93%–3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
1-3	94%–7%		1-3	94%–6%	
1-3	97%–3%		1-3	98%–3%	
1-3	90%–3%		1-3	91%–3%	
1-3	88%–3%		1-3	91%–3%	
1-3	92%–3%		1-3	95%–3%	
1-3	92%–3%		1-3	96%–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 with the indicated dimmer will be somewhere between 10%-30%

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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



Professional LED lamps MV range

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



KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W – Turn
Berker INSTA	283010	[R]	60 – 400 W – Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U – 503	[R]	60 – 400 W – Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W – Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W – Turn
Busch Jaeger ABB	6513 U – 102	[RC]	40 – 420 W – Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA – LED – Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA – LED – Push (2wire)
ELKO Schneider	SBD200LED (CCTELI0501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTELI3011)	[RLC]	420 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W – Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W – Turn
Jung	1271LEDDE	[LED]	3 – 100W – Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W – 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W – Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W – Turn
Legrand	67082	[RL]	40 – 600 W – Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA – Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA – Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK – Electric	K1535	[R]	65 – 450 W – Turn
MK – Electric	K1501 WHILV	[R]	60 – 500 W – Turn
MK – Electric	K4501 WHILV	[RLC]	180 W
MK – Electric	K4500 WHILV	[RLC]	400 W
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	RMO545	[LED]	4 – 100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA – Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60 – 400 W
Varilight	ICT401 M	[RC]	20 – 400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LED bulb								
Classic filament bulb 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 ST64			Classic filament bulb ST64 clear dim 60W / ST64 gold dim 50W / ST64 gold dim 55W			Classic filament bulb G93 clear 60W / G120 gold dim 50W		
NEW								
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
1 - 3	98%–3%		1 - 3	93%–3%		1 - 3	93%–3%	
2-3	97%–3%		1 - 3	94%–3%		1 - 3	94%–3%	
T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.		N.A.	N.A.
1 - 3	98%–8%		1 - 3	97%–3%		1 - 3	97%–3%	
1 - 3	98%–3%		1 - 3	94%–3%		1 - 3	94%–3%	
1 - 3	97%–3%		1 - 3	96%–3%		1 - 3	96%–3%	
1 - 3	99%–3%		1 - 3	95%–3%		1 - 3	95%–3%	
1 - 3	97%–3%		1 - 3	91%–3%		1 - 3	91%–3%	
1 - 3	93%–3%		1 - 3	95%–3%		1 - 3	95%–3%	
2-3	99%–3%		1 - 3	94%–6%		1 - 3	94%–6%	
2-3	98%–3%		1 - 3	83%–3%		1 - 3	83%–3%	
	N.A.	N.A.	3	99%–3%		3	99%–3%	
1 - 3	91%–3%		1 - 3	99%–3%		1 - 3	99%–3%	
2-3	99%–3%		1 - 3	94%–6%		1 - 3	94%–6%	
2-3	98%–3%		1 - 3	83%–3%		1 - 3	83%–3%	
	N.A.	N.A.	3	99%–3%		3	99%–3%	
1 - 3	99%–3%		1 - 3	95%–11%		1 - 3	95%–11%	
T.B.D.	T.B.D.	T.B.D.	1 - 3	93%–3%		1 - 3	93%–3%	
1 - 3	92%–3%		1 - 3	96%–3%		1 - 3	96%–3%	
1 - 3	92%–3%		1 - 3	98%–3%		1 - 3	98%–3%	
1 - 3	92%–3%		1 - 3	98%–4%		1 - 3	98%–4%	
1 - 3	98%–3%		1 - 3	93%–6%		1 - 3	93%–6%	
1 - 3	97%–3%		1 - 3	95%–10%		1 - 3	95%–10%	
1 - 3	86%–4%		1 - 3	86%–3%		1 - 3	86%–3%	
1 - 3	92%–3%		1 - 3	80%–3%		1 - 3	80%–3%	
2-3	98%–3%			N.A.	N.A.		N.A.	N.A.
1 - 3	91%–3%		1 - 3	95%–3%		1 - 3	95%–3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
2-3	97%–3%			N.A.	N.A.		N.A.	N.A.
1 - 3	90%–3%		1 - 2	87%–5%		1 - 2	87%–5%	
1 - 3	97%–3%		1 - 3	95%–3%		1 - 3	95%–3%	
1 - 3	97%–3%		1 - 3	98%–3%		1 - 3	98%–3%	
2 - 3	88%–3%		2 - 3	87%–5%		2 - 3	87%–5%	
2-3	99%–3%		1 - 3	94%–6%		1 - 3	94%–6%	
2-3	98%–3%		1 - 3	83%–3%		1 - 3	83%–3%	
	N.A.	N.A.	3	99%–3%		3	99%–3%	
2-3	93%–3%		1 - 3	84%–3%		1 - 3	84%–3%	
1-3	98%–3%		1 - 3	87%–3%		1 - 3	87%–3%	
1 - 3	98%–3%		1 - 3	91%–9%		1 - 3	91%–9%	
1 - 3	92%–3%		1 - 3	91%–9%		1 - 3	91%–9%	
1 - 3	91%–3%		1 - 3	97%–3%		1 - 3	97%–3%	
1 - 3	97%–3%		1 - 3	87%–3%		1 - 3	87%–3%	
1 - 3	97%–3%		1 - 3	91%–3%		1 - 3	91%–3%	
1 - 3	98%–3%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
1 - 3	92%–3%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
2-3	98%–3%		1 - 3	83%–3%		1 - 3	83%–3%	
2-3	98%–3%		1 - 3	83%–3%		1 - 3	83%–3%	
2-3	99%–3%		1 - 3	94%–6%		1 - 3	94%–6%	
2-3	98%–3%		1 - 3	83%–3%		1 - 3	83%–3%	
1 - 3	98%–3%		1 - 3	91%–9%		1 - 3	91%–9%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
1 - 3	84%–3%		1 - 3	87%–3%		1 - 3	87%–3%	
2 - 3	97%–3%		1 - 3	93%–3%		1 - 3	93%–3%	
1 - 3	75%–3%		1 - 3	87%–3%		1 - 3	87%–3%	
1 - 3	98%–3%		1 - 3	95%–3%	<2	1 - 3	95%–3%	<2
1 - 3	89%–3%		1 - 3	98%–3%		1 - 3	98%–3%	
1 - 3	91%–3%		1 - 3	92%–3%		1 - 3	92%–3%	
1 - 3	98%–3%		1 - 3	97%–3%	<2	1 - 3	97%–3%	<2
3	91%–3%		1 - 3	89%–3%		1 - 3	89%–3%	
1 - 3	90%–3%		1 - 3	91%–3%		1 - 3	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 with the indicated dimmer will be somewhere between 10%-30%

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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



Professional LED lamps MV range

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



KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W - Turn
Berker INSTA	283010	[R]	60 – 400 W - Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U – 503	[R]	60 – 400 W - Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W - Turn
Busch Jaeger ABB	6513 U – 102	[RC]	40 – 420 W - Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA - LED - Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA - LED - Push (2wire)
ELKO Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W - Turn
Jung	1271LEDDE	[LED]	3 – 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W – 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W - Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W - Turn
Legrand	67082	[RL]	40 – 600 W - Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA - Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK - Electric	K1535	[R]	65 – 450 W - Turn
MK - Electric	K1501 WHILV	[R]	60 – 500 W - Turn
MK - Electric	K4501 WHILV	[RLC]	180 W
MK - Electric	K4500 WHILV	[RLC]	400 W
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	RMO545	[LED]	4 – 100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA - Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60 – 400 W
Varilight	ICT401 M	[RC]	20 – 400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LEDcandle/luster											
Master LEDCandle / LEDluster DimTone 4-25W			Master LEDCandle / LEDluster DimTone 6-40W			Master LEDCandle DimTone 8-60W			Classic LED filament candle/lustre B35 3W-25W clear P45 3W-25W clear		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	NEW Dimming Performance	NEW Dimming Range	NEW Glowing
2-18	96%-3%		2-12	93%-3%		2-12	90%-3%		2 - 8	99%-3%	
2-20	89%-3%		2-13	89%-3%		T.B.D.	T.B.D.	T.B.D.	2 - 8	99%-3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
2-20	92%-3%		2-13	92%-3%		T.B.D.	T.B.D.	T.B.D.	2 - 8	99%-12%	
2-25	91%-3%		2-17	91%-3%		T.B.D.	T.B.D.	T.B.D.	2 - 8	99%-3%	
2-30	88%-3%		2-20	93%-3%		2-15	92%-3%		3 - 8	99%-3%	
2-21	94%-3%		2-14	91%-3%		2-14	91%-3%		2 - 8	99%-3%	
2-20	84%-3%		2-17	83%-3%		2-15	88%-3%		2 - 6	99%-3%	
2-20	88%-7%	<4	2-17	88%-5%	< 6	2-17	99%-3%		2 - 20	97%-3%	
2-20	95%-3%		2-13	92%-3%		2-13	90%-3%		2 - 8	99%-3%	
2-15	88%-3%		2-11	87%-0%		2-11	90%-3%		3 - 8	99%-3%	
2-20	91%-3%		2-14	90%-3%		T.B.D.	T.B.D.	T.B.D.	3 - 8	99%-3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-13	99%-3%		2 - 16	96%-3%	
2-20	95%-3%		2-13	92%-3%		2-13	90%-3%		2 - 8	99%-3%	
2-15	88%-3%		2-11	87%-0%		2-11	90%-3%		3 - 8	99%-3%	
2-20	91%-3%		2-14	90%-3%		T.B.D.	T.B.D.	T.B.D.	3 - 8	99%-3%	
2-20	95%-7%	<7	2-14	95%-5%	< 9	2-14	99%-4%		2 - 17	97%-3%	
2-25	94%-3%		2-17	92%-3%		T.B.D.	T.B.D.	T.B.D.	2 - 8	99%-19%	
	95%-4%	<7	2-10	96%-3%	< 10	2-10	99%-3%		2 - 12	96%-3%	
	95%-4%	<7	2-10	95%-3%	< 10	2-10	99%-3%		2 - 12	96%-3%	
	95%-7%	<7	2-17	96%-4%	< 11	2-10	99%-3%		2 - 20	96%-3%	
2-26	89%-3%		2-18	89%-3%		2-10	89%-3%		2 - 8	99%-3%	
2-25	93%-4%		2-17	92%-3%		2-15	90%-3%		2 - 8	99%-3%	
	78%-7%	<6	2-4	77%-4%	< 5	2-4	88%-3%		2 - 5	93%-4%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-10	94%-3%		2 - 12	96%-3%	
	N.A.	N.A.		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	3 - 8	99%-3%	
2-20	95%-4%	<7	2-13	93%-4%	< 9	2-13	99%-3%		2 - 16	95%-3%	
	N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3 - 8	99%-3%	
	N.A.	N.A.		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	3 - 8	99%-3%	
	N.A.	N.A.		N.A.	N.A.	2-5	87%-3%		2 - 16	95%-3%	
	N.A.	N.A.		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	2 - 8	99%-3%	
2-15	94%-3%		2-10	91%-3%		2-10	95%-3%		2 - 8	99%-3%	
	79%-4%		8-17	79%-4%		3-17	90%-3%		3 - 20	95%-3%	
2-20	95%-3%		2-13	92%-3%		2-13	90%-3%		2 - 8	99%-3%	
2-15	88%-3%		2-11	87%-3%		2-11	90%-3%		3 - 8	99%-3%	
2-20	91%-3%		2-14	90%-3%		T.B.D.	T.B.D.	T.B.D.	3 - 8	99%-3%	
2-23	79%-3%		2-15	77%-3%		2-15	80%-3%		3 - 8	99%-3%	
2-25	88%-3%		2-17	87%-3%		2-15	80%-3%		3 - 8	99%-3%	
	83%-3%		2-7	82%-3%		2-7	90%-3%		3 - 9	96%-3%	
	83%-3%			N.A.	N.A.	2-13	84%-3%		8 - 16	96%-3%	
2-5	96%-5%		2-3	96%-4%		2-3	99%-3%		2 - 4	94%-3%	
	82%-7%		2-4	82%-5%		2-4	89%-3%		2 - 5	96%-3%	
2-20	84%-3%		2-17	83%-3%		2-15	88%-3%		2 - 6	99%-3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-3	99%-4%		2 - 4	96%-3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-3	96%-3%			N.A.	N.A.
2-15	88%-3%		2-11	87%-3%		2-11	90%-3%		3 - 8	99%-3%	
2-15	88%-3%		2-11	87%-3%		2-11	90%-3%		3 - 8	99%-3%	
2-20	95%-3%		2-13	92%-3%		2-13	90%-3%		2 - 8	99%-3%	
2-15	88%-3%		2-11	87%-3%		2-11	90%-3%		3 - 8	99%-3%	
2-18	88%-7%		2-12	84%-4%		2-12	90%-3%		2 - 14	95%-3%	
4-16	89%-4%		5-11	91%-4%	< 12	3-11	80%-3%		3 - 13	95%-3%	
2-13	86%-3%		2-8	79%-3%	< 8	2-8	85%-3%		2 - 10	85%-3%	
2-20	91%-3%		2-13	90%-3%		2-13	90%-3%		3 - 8	99%-3%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	2-13	88%-3%		3 - 16	90%-3%	
6-25	90%-3%	<6	4-17	92%-3%	<4	T.B.D.	T.B.D.	T.B.D.	2 - 8	99%-3%	<2
2-20	99%-3%		2-17	96%-3%	< 7	2-17	93%-3%		5 - 20	96%-3%	
	89%-3%		2-10	89%-3%	< 11	2-17	96%-3%		2 - 20	96%-3%	
6-15	92%-3%	<6	4-10	86%-3%	<4	T.B.D.	T.B.D.	T.B.D.	2 - 8	99%-3%	<2
2-20	89%-3%		2-17	91%-3%		T.B.D.	T.B.D.	T.B.D.	5 - 8	94%-3%	
2-20	92%-3%		2-15	91%-3%		T.B.D.	T.B.D.	T.B.D.	2 - 8	95%-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 with the indicated dimmer will be somewhere between 10%-30%

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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



Professional LED lamps MV range

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



KEY

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

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

Brand	Type	Type	Load
Berker INSTA	286710	[RC]	20 – 360 W - Turn
Berker INSTA	283010	[R]	60 – 400 W - Turn
Bticino	L4407	[]	60 – 250 W
Busch Jaeger ABB	2200 U – 503	[R]	60 – 400 W - Turn
Busch Jaeger ABB	2247 U	[RL]	20 – 500 W - Turn
Busch Jaeger ABB	2250 U	[R]	60 – 600 W - Turn
Busch Jaeger ABB	6513 U – 102	[RC]	40 – 420 W - Turn
Busch Jaeger ABB	6523 U	[LED]	2 – 100 VA – LED – Turn
Busch Jaeger ABB	6526 U	[LED]	2 – 100 VA – LED – Push (2wire)
ELKO Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 – 200W (RC) 4 – 400W (RL)
ELKO Schneider	SBD315RC (315 GLE)	[RC]	315 W
ELKO Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W
Eltako	EVD61NPN-UC		400 W 3-wire Push Module
Feller Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Feller Schneider	40300 (SBD315)	[RLC]	300 W
Feller Schneider	40420 (SBD420)	[RLC]	420 W
GIRA	1176-00/01	[RLC]	50 – 420 W
GIRA	2390 00/ 100	[LED]	7 – 100 W - Push (3wire)
Hager	EVN 011	[RC]	300 VA
Hager	EVN 012	[RC]	300 W
Hager	EVN 004	[RL]	500 VA
Jung	225 TDE	[RC]	20 – 525 W - Turn
Jung	1271LEDD	[LED]	3 – 100W - Push (3wire)
Klik aan Klik uit	AWMD-250	[LED]	3 – 24W
Klik aan Klik uit	ACM 300		300W – 3-wire Push LED Dimmer
Legrand	774161	[RL]	40 – 400 W - Turn
Legrand	78401	[RLC]	40 – 500W
Legrand	67081	[RL]	40 – 400 W - Turn
Legrand	67082	[RL]	40 – 600 W - Turn
Legrand	67083	[RLC]	3 – 400W
Legrand	67084	[RLC]	8 – 300 VA – Push LED (3wire)
Legrand	67085 (078406)	[RLC]	8 – 300 VA – Push LED (3wire)
Legrand	L4402N	[R]	60 – 500 W
Merten Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 – 200 W (RC) 4 – 400 W (RL)
Merten Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W
Merten Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 – 420 VA
MK – Electric	K1535	[R]	65 – 450 W - Turn
MK – Electric	K1501 WHILV	[R]	60 – 500 W - Turn
MK – Electric	K4501 WHILV	[RLC]	180 W
MK – Electric	K4500 WHILV	[RLC]	400 W
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	RMO545	[LED]	4 – 100W
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W
Schneider	SBD315RC (ATD315(CCTO11533)	[RC]	315 W
Schneider	SBD200 (WDE 002299)	[]	4 – 400 VA – Turn Universal (2wire)
Schneider	SBD315RC (SBD 315)	[RC]	315 W
VADSBO	ED 350	[RC]	50 – 350 W
VADSBO	DRS 315	[RC]	50 – 315 W
VADSBO	DU 250	[RC]	20 – 250 W
Varilight	HQ3W	[R]	60 – 400 W
Varilight	ICT401 M	[RC]	20 – 400 W
Vimar	20148	[RL]	500 W
Vimar	14153	[R]	
Vimar	20160	[RC]	
Vimar	20162	[RL]	40 – 300 W
Dynalite	DDLE801		(100 W per channel)
Dynalite	DDMC-GRMSPLUS		(460 W per channel)

LED special								
LED capsule G9 2.5W – 25W			Corepro R7s 118mm D 14W – 100W			Corepro LEDlinear R7s 118mm D 14 – 120		
Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
3-20	96%-27%		1	89%-8%		1	94%-21%	
3-20	86%-23%		1	94%-3%		1	97%-16%	
	N. A.	N. A.	T.B.D.	T.B.D.	T.B.D.		N. A.	N. A.
3-20	85%-33%		1	91%-23%		1	98%-27%	
3-20	83%-9%		1	93%-3%		1	96%-3%	
3-20	87%-6%		1	96%-3%		1	95%-15%	
3-20	98%-24%		1	93%-7%		1	97%-23%	
3-20	92%-3%		1	88%-3%		1	92%-21%	
3-20	97%-23%	< 7	T.B.D.	T.B.D.	T.B.D.	1	96%-15%	
3-20	96%-30%		1	88%-10%		1	94%-21%	
3-20	95%-9%		1	89%-3%		1	93%-4%	
	N. A.	N. A.	1	93%-3%			N. A.	N. A.
3-20	99%-15%		T.B.D.	T.B.D.	T.B.D.	1 – 3	97%-7%	
3-20	96%-30%		1	88%-10%		T.B.D.	T.B.D.	T.B.D.
3-20	95%-9%		1	89%-3%		1	93%-4%	
	N. A.	N. A.	1	93%-3%			N. A.	N. A.
3-20	96%-39%	< 12	T.B.D.	T.B.D.	T.B.D.	1 – 3	93%-25%	
3-18	91%-15%		1	89%-4%		1	92%-10%	
3-20	98%-18%	< 14	T.B.D.	T.B.D.	T.B.D.	1 – 3	95%-16%	
3-20	99%-28%	< 14	T.B.D.	T.B.D.	T.B.D.	1 – 3	97%-17%	
3-20	99%-28%	< 15	T.B.D.	T.B.D.	T.B.D.	1 – 3	99%-18%	
3-20	96%-33%		1	90%-10%		1	94%-23%	
3-20	94%-3%		1	90%-3%		1	93%-4%	
3-10	86%-3%	< 11	T.B.D.	T.B.D.	T.B.D.		84%-30%	
3-20	33%-3%	< 10	T.B.D.	T.B.D.	T.B.D.		92%-10%	
	N. A.	N. A.		N. A.	N. A.		N. A.	N. A.
3-20	97%-3%	< 13	T.B.D.	T.B.D.	T.B.D.	1 – 3	97%-11%	
	N. A.	N. A.		N. A.	N. A.	1	93%-30%	
	N. A.	N. A.		N. A.	N. A.	1	92%-11%	
	N. A.	N. A.	T.B.D.	T.B.D.	T.B.D.		88%-6%	
3-20	97%-23%			N. A.	N. A.	1	96%-3%	
3-20	99%-4%			N. A.	N. A.	1	99%-3%	
	N. A.	N. A.	T.B.D.	T.B.D.	T.B.D.	1	87%-22%	
3-20	96%-30%		1	88%-10%		T.B.D.	T.B.D.	T.B.D.
3-20	95%-9%		1	89%-3%		T.B.D.	T.B.D.	T.B.D.
	N. A.	N. A.	1	93%-3%		T.B.D.	T.B.D.	T.B.D.
3-20	72%-19%		1	82%-10%		1	81%-15%	
3-10	82%-17%		1	88%-6%		1	89%-12%	
	N. A.	N. A.	T.B.D.	T.B.D.	T.B.D.	1 – 3	90%-12%	
	N. A.	N. A.	T.B.D.	T.B.D.	T.B.D.	1 – 3	90%-13%	
3-9	98%-8%		T.B.D.	T.B.D.	T.B.D.	1	98%-3%	
3-10	76%-4%		T.B.D.	T.B.D.	T.B.D.	1 – 2	85%-4%	
3-20	92%-3%		1	88%-3%		T.B.D.	T.B.D.	T.B.D.
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	1	97%-27%	
T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	1	89%-10%	
3-20	95%-9%		1	89%-3%		T.B.D.	T.B.D.	T.B.D.
3-20	95%-9%		1	89%-3%		T.B.D.	T.B.D.	T.B.D.
3-20	96%-30%		1	88%-10%		T.B.D.	T.B.D.	T.B.D.
3-20	95%-9%		1	89%-3%		T.B.D.	T.B.D.	T.B.D.
5-20	93%-34%		T.B.D.	T.B.D.	T.B.D.	1 – 3	99%-22%	
	N. A.	N. A.	T.B.D.	T.B.D.	T.B.D.		N. A.	N. A.
3-20	92%-14%	<21	T.B.D.	T.B.D.	T.B.D.	1 – 3	82%-5%	<2
3-20	85%-14%		1	93%-3%		1	95%-6%	
3-20	85%-14%	< 11	T.B.D.	T.B.D.	T.B.D.	1 – 3	85%-2%	
	N. A.	N. A.	1	94%-4%		1	95%-12%	
3-20	98%-3%	<10	T.B.D.	T.B.D.	T.B.D.	1 – 3	96%-3%	
	N. A.	N. A.	T.B.D.	T.B.D.	T.B.D.	1 – 3	95%-6%	<2
3-20	96%-18%	<21	1	90%-5%		1	94%-15%	
3-20	97%-3%		1	88%-3%		1	97%-3%	
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 lightsources. (e.g. flickering where "active loads" can reduce your problems)

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

#5) Various dimmer suppliers offer "active loads" (e.g. Busch Jaeger Kompensator 6596) to optimize dimming performance in case of lamp-dimmer system issues. Using double pole switches will prevent glowing issues.

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

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

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



