September 2017

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

				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		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286710	[RC]	20 ~ 360 W - Turn	2-5 (max18)	88%~7%		2-5 (max9)	91%~5%		2-18	92%~7%		2-13	92%~6%	
Berker |INSTA	283010	[R]	60 ~ 400 W - Turn	2-5 (max20)	93%~6%		2-3	95~5%		2-18	93%~5%		2-15	94%~4%	
Bticino	L4407	[]	60 ~ 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger |ABB	2200 U - 503	[R]	60 ~ 400 W - Turn	2-5 (max20)	83%~17%		2-5 (max14)	94%~17%		2-18	92%~6%		2-15	96%~5%	
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W - Turn	2-5 (max20)	95%~3%		2-5 (max14)	95%~3%		2-20	92%~3%		2-18	96%~3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W - Turn	2-5 (max25)	93%~3%		2-5 (max18)	96%~3%		2-20	91%~3%		2-20	97%~3%	
Busch Jaeger |ABB	6513 U - 102	[RC]	40 ~ 420 W - Turn	2-5 (max21)	92%~4%		2-5 (max15)	94%~6%		2-19	95%~6%		2-15	96%~6%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA - LED - Turn	2-5 (max25)	92%~4%		2-5 (max18)	91%~3%		2-20	89%~3%		2-18	93%~3%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA - LED - Push (2wire)	2-19	92%~3%		2-20	90%~3%		2-20	96%~4%		2-18	97%~6%	
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)	2-5 (max10)	89%~11%		2-5 (max7)	90%~8%		2-18	91%~7%		2-15	97%~4%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	2-5 (max16)	88%~3%		2-5 (max11)	91%~3%		2-14	92%~3%		T.B.D.	T.B.D.	T.B.D.
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W	2-5 (max21)	94%~3%		2-5 (max15)	96%~3%		2-19	93%~3%		T.B.D.	T.B.D.	T.B.D.
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	2-19	98%~3%		2-16	93%~3%		2-18	98%~3%		2-15	98%~4%	< 16
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	2-5 (max10)	89%~11%		2-5 (max7)	90%~8%		2-18	91%~7%		2-15	97%~4%	
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	2-5 (max16)	88%~3%		2-5 (max11)	91%~3%		2-14	92%~3%		T.B.D.	T.B.D.	T.B.D.
Feller| Schneider	40420 (SBD420)	[RLC]	420 W	2-5 (max21)	94%~3%		2-5 (max15)	96%~3%		2-19	93%~3%		T.B.D.	T.B.D.	T.B.D.
GIRA	1176-00/01	[RLC]	50 ~ 420 W	2-19	91%~12%		2-17	92%~13%		2-19	96%~10%		2-15	95%~8%	
GIRA	2390 00/ 100	[LED]	7 ~ 100 W - Push (3wire)	2-5 (max25)	86%~24%		2-5 (max18)	91%~25%		2-15	96%~6%		2-16	91%~4%	
Hager	EVN 011	[RC]	300 VA	2-15	96%~10%		2-12	91%~9%		2-13	98%~3%	< 12	2-11	98%~5%	< 12
Hager	EVN 012	[RC]	300 W	2-15	96%~9%		2-12	92%~6%		2-13	98%~4%	< 12	2-11	97%~5%	< 12
Hager	EVN 004	[RL]	500 VA	2-19	96%~10%		2-20	91%~6%		2-20	98%~3%		2-18	97%~5%	
Jung	225 TDE	[RC]	20 ~ 525 W - Turn	2-5 (max26)	91%~3%		2-5 (max19)	93%~11%		2-20	92%~7%		2-16	93%~7%	
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)	2-5 (max25)	89%~3%		2-5 (max18)	92%~3%		2-20	89%~11%		2-16	91%~3%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W	3-6	72%~17%		2-5	76%~18%		2-5	88%~3%			N.A.	N.A.
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	2-15	89%~3%		2-12	83%~3%		2-13	90%~3%		2-11	91%~4%	
Legrand	774161	[RL]	40 ~ 400 W - Turn	5	95%~3%			N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 ~ 500W	2-19	91%~3%		2-16	88%~3%		2-18	78%~3%	< 3	2-15	95%~3%	< 3
Legrand	67081	[RL]	40 ~ 400 W - Turn	3-5 (max20)	93%~3%		2-5 (max14)	96%~3%			N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 ~ 600 W - Turn	5	95%~5%		3-5 (max14)	96%~3%			N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 ~ 400W	3-4	86%~3%		2-3	80%~3%		2-3	90%~1%			N.A.	N.A.
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	2-5 (max15)	93%~3%		2-5 (max10)	93%~3%		2-18	94%~4%			N.A.	N.A.
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	2-5 (max15)	97%~3%		2-5 (max10)	98%~3%			N.A.	N.A.	2-11	98%~3%	
Legrand	L4402N	[R]	60 ~ 500 W	3-19	86%~11%		2-20	81%~13%		10-20	88%~4%		5-18	88%~7%	
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	2-5 (max10)	89%~11%		2-5 (max7)	90%~8%		2-18	91%~7%		2-15	97%~4%	
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	2-5 (max16)	88%~3%		2-5 (max11)	91%~3%		2-14	92%~3%		T.B.D.	T.B.D.	T.B.D.
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA	2-5 (max21)	94%~3%		2-5 (max15)	96%~3%		2-19	93%~3%		T.B.D.	T.B.D.	T.B.D.
MK - Electric	K1535	[R]	65 ~ 450 W - Turn	2-5 (max23)	71%~3%		2-5 (max16)	80%~4%		2-20	83%~4%		2-16	84%~5%	
MK - Electric	K1501 WHILV	[R]	60 ~ 500 W - Turn	2-5 (max25)	77%~3%		2-5 (max18)	87%~3%		2-20	88%~4%		2-16	89%~5%	
MK - Electric	K4501 WHILV	[RLC]	180 W	2-11	84%~3%		2-9	80%~3%		2-10	90%~2%		2-9	90%~4%	
MK - Electric	K4500 WHILV	[RLC]	400 W	2-16	86%~3%		2-13	80%~3%		2-14	89%~2%		2-15	89%~4%	
NIKO	310-0280X	[LED]	2 ~ 100 VA	2-5	96%~3%		2-4	91%~3%		2-4	97%~3%		2-4	99%~2%	
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W	2-6	80%~3%		2-5	80%~3%		2-5	90%~3%		2-4	88%~3%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)	2-5 (max25)	92%~4%		2-5 (max18)	91%~3%		2-20	89%~3%		2-18	93%~3%	
RELCO	RP0977	[LED]	4 - 100W	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.
RELCO	RM0545	[LED]	4 - 100W	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.
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	2-5 (max16)	88%~3%		2-5 (max11)	91%~3%		2-14	92%~3%		T.B.D.	T.B.D.	T.B.D.
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	2-5 (max16)	88%~3%		2-5 (max11)	91%~3%		2-14	92%~3%		T.B.D.	T.B.D.	T.B.D.
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA - Turn Universal (2wire)	2-5 (max10)	89%~11%		2-5 (max7)	90%~8%		2-18	91%~7%		2-15	97%~4%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	2-5 (max16)	88%~3%		2-5 (max11)	91%~3%		2-14	92%~3%		2-11	92%~3%	
VADSBO	ED 350	[RC]	50 ~ 350 W	2-18	86%~10%		2-14	82%~11%		2-16	92%~6%		2-13	91%~8%	
VADSBO	DRS 315	[RC]	50 ~ 315 W	2-16	92%~5%		2-13	86%~3%		8-14	95%~4%	< 15	3-11	93%~6%	< 12
VADSBO	DU 250	[RC]	20 ~ 250 W	2-13	70%~3%		2-10	68%~3%		2-11	89%~3%	< 12	2-9	85%~3%	< 10
Varilight	HQ3W	[R]	60 - 400 W	2-5 (max20)	91%~3%		2-5 (max14)	92%~3%		3-18	91%~3%		2-15	96%~3%	
Varilight	ICT401 M	[RC]	20 - 400 W	2-19	75%~3%		2-16	83%~3%		2-18	95%~1%		2-15	93%~2%	
Vimar	20148	[RL]	500 W	2-5 (max25)	93%~3%	< 6	2-5 (max18)	94%~3%	< 5	2-20	93%~4%	< 4	2-16	95%~4%	< 17
Vimar	14153	[R]		2-19	99%~3%		2-20	95%~3%		2-20	98%~3%		2-18	99%~3%	
Vimar	20160	[RC]		2-15	90%~3%		2-12	87%~3%		2-13	94%~1%	< 14	2-18	96%~3%	< 17
Vimar	20162	[RL]	40 ~ 300 W	2-5 (max15)	91%~3%	< 6	2-5 (max10)	90%~3%	< 6	2-13	91%~3%	< 10	2-11	90%~4%	< 12
Dynalite	DDLE801		(100 W per channel)	2-5	79%~3%		2-5	90%~3%		T.B.D.	T.B.D.	T.B.D.	5-16	92%~3%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	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 performace of LED products.
Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

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

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				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		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286710	[RC]	20 ~ 360 W - Turn	2-20	91%~25%		2-15	85%~19%		2-8 (max 19)	94%~8%		2-8 (max 14)	92%~3%	
Berker |INSTA	283010	[R]	60 ~ 400 W - Turn	2-20	95%~24%		2-15	88%~19%		2-8 (max 21)	87%~3%		2-8 (max 16)	93%~3%	
Bticino	L4407	[]	60 ~ 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger |ABB	2200 U - 503	[R]	60 ~ 400 W - Turn	2-18	93%~19%		2-15	89%~17%		2-8 (max 21)	86%~4%		2-8 (max 16)	92%~3%	
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W - Turn	2-20	93%~10%		2-18	97%~6%		2-8 (max 21)	86%~3%		2-8 (max 16)	94%~3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W - Turn	2-20	96%~7%		2-20	98%~4%		2-8 (max 27)	89%~3%		2-8 (max 20)	94%~3%	
Busch Jaeger |ABB	6513 U - 102	[RC]	40 ~ 420 W - Turn	2-20	94%~23%		2-15	87%~20%		2-8 (max 22)	86%~4%		2-8 (max 17)	94%~3%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA - LED - Turn	2-20	90%~2%		2-20	93%~17%		2-8 (max 27)	89%~3%		2-8 (max 20)	89%~3%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA - LED - Push (2wire)	2-20	96%~24%		2-18	96%~18%		2-20	95%~6%		2-20	91%~5%	
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)	2-20	92%~29%		2-15	85%~23%			N.A.	N.A.	2-8	92%~3%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	2-14	91%~6%		2-11	91%~5%		3-8 (max 17)	95%~3%		2-8 (max 12)	92%~3%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W	2-19	94%~14%		2-15	97%~13%			N.A.	N.A.	3-8 (max 17)	95%~3%	
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	2-14	99%~15%	< 19	2-15	99%~14%	< 16	2-20	94%~10%		2-16	96%~3%	
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	2-20	92%~29%		2-15	85%~23%			N.A.	N.A.	2-8	92%~3%	
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	2-14	91%~6%		2-11	91%~5%		3-8 (max 17)	95%~3%		2-8 (max 12)	92%~3%	
Feller| Schneider	40420 (SBD420)	[RLC]	420 W	2-19	94%~14%		2-15	97%~13%			N.A.	N.A.	3-8 (max 17)	95%~3%	
GIRA	1176-00/01	[RLC]	50 ~ 420 W	2-19	94%~36%		2-15	95%~32%		2-20	94%~11%		2-17	94%~9%	
GIRA	2390 00/ 100	[LED]	7 ~ 100 W - Push (3wire)	2-13	97%~13%		2-18	90%~14%		3-8 (max 27)	90%~3%		3-8 (max 20)	91%~3%	
Hager	EVN 011	[RC]	300 VA	2-14	97%~19%	< 6	2-11	97%~16%	< 12	2-16	98%~8%		2-12	94%~7%	
Hager	EVN 012	[RC]	300 W	2-14	98%~19%	< 5	2-11	97%~16%	< 12	2-16	98%~8%		2-12	94%~7%	
Hager	EVN 004	[RL]	500 VA	2-20	98%~19%		2-18	97%~16%		2-20	98%~8%		2-20	95%~7%	
Jung	225 TDE	[RC]	20 ~ 525 W - Turn	2-20	92%~26%		2-15	87%~22%		2-8 (max 28)	96%~8%		2-8 (max 21)	91%~3%	
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)	2-20	93%~37%		2-20	88%~35%		2-8 (max 27)	91%~3%		2-8 (max 20)	91%~3%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W	2-5	88%~3%		2-4	87%~37%		2-6	84%~11%		2-5	80%~11%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	2-14	93%~3%			N.A.	N.A.	2-16	99%~3%		2-12	87%~3%	
Legrand	774161	[RL]	40 ~ 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	2-8 (max 16)	95%~3%	<4
Legrand	78401	[RLC]	40 ~ 500W	2-18	96%~3%	< 3	2-15	92%~16%	< 3	2-20	93%~4%		2-16	91%~3%	
Legrand	67081	[RL]	40 ~ 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8 (max 16)	95%~3%	
Legrand	67082	[RL]	40 ~ 600 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8 (max 24)	94%~3%	
Legrand	67083	[RLC]	3 ~ 400W	2-3	89%~12%			N.A.	N.A.	2-20	89%~3%		2-16	85%~2%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	2-18	98%~20%		2-15	88%~15%		2-8 (max 16)	96%~4%	< 3	2-8 (max 12)	93%~3%	<4
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)		N.A.	N.A.	2-11	99%~3%		2-8 (max 16)	99%~3%		2-8 (max 12)	95%~3%	
Legrand	L4402N	[R]	60 ~ 500 W	8-20	91%~30%		3-18	86%~28%		3-20	87%~10%		2-20	84%~8%	
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	2-20	92%~29%		2-15	85%~23%			N.A.	N.A.	2-8	92%~3%	
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	2-14	91%~6%		2-11	91%~5%		3-8 (max 17)	95%~3%		2-8 (max 12)	92%~3%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA	2-19	94%~14%		2-15	97%~13%			N.A.	N.A.	3-8 (max 17)	95%~3%	
MK - Electric	K1535	[R]	65 ~ 450 W - Turn	3-20	85%~20%		2-15	77%~15%		2-8 (max 24)	52%~3%		2-8 (max 18)	70%~3%	
MK - Electric	K1501 WHILV	[R]	60 ~ 500 W - Turn	3-20	89%~19%		2-18	81%~17%		2-8 (max 27)	80%~3%		2-8 (max 20)	87%~3%	
MK - Electric	K4501 WHILV	[RLC]	180 W	3-10	89%~19%		2-8	90%~19%		2-12	86%~4%		2-9	86%~4%	
MK - Electric	K4500 WHILV	[RLC]	400 W	3-15	90%~20%		2-15	88%~19%		2-20	86%~5%		2-13	86%~4%	
NIKO	310-0280X	[LED]	2 ~ 100 VA	2-5	97%~8%		2-4	97%~7%		2-5	99%~3%		2-4	95%~3%	
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W	2-5	89%~10%		2-4	87%~10%		2-6	85%~3%		2-5	84%~3%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)	2-20	90%~3%		2-20	93%~17%		2-8 (max 27)	89%~3%		2-8 (max 20)	89%~3%	
RELCO	RP0977	[LED]	4 - 100W	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%	
RELCO	RM0545	[LED]	4 - 100W	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%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	2-14	91%~6%		2-11	91%~5%		3-8 (max 17)	95%~3%		2-8 (max 12)	92%~3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	2-14	91%~6%		2-11	91%~5%		3-8 (max 17)	95%~3%		2-8 (max 12)	92%~3%	
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA - Turn Universal (2wire)	2-20	92%~29%		2-15	85%~23%			N.A.	N.A.	2-8	92%~3%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	2-14	91%~6%		2-11	91%~5%		3-8 (max 17)	95%~3%		2-8 (max 12)	92%~3%	
VADSBO	ED 350	[RC]	50 ~ 350 W	2-16	93%~34%		2-13	88%~29%		2-20	88%~10%		2-14	85%~8%	
VADSBO	DRS 315	[RC]	50 ~ 315 W	8-14	95%~24%	< 15	3-11	97%~21%	< 12	3-17	93%~6%		2-13	90%~5%	
VADSBO	DU 250	[RC]	20 ~ 250 W	2-11	89%~11%	< 12	2-9	89%~9%	< 10	2-14	84%~3%	< 15	2-10	77%~3%	< 11
Varilight	HQ3W	[R]	60 - 400 W	2-18	98%~14%		2-15	88%~8%		2-8 (max 21)	85%~3%		2-8 (max 16)	92%~3%	
Varilight	ICT401 M	[RC]	20 - 400 W	2-18	94%~10%		2-15	92%~7%		2-20	84%~3%		2-16	79%~3%	
Vimar	20148	[RL]	500 W	2-20	94%~17%		2-18	88%~16%	< 4	2-8 (max 27)	87%~3%	< 8	3-8 (max 20)	92%~3%	< 9
Vimar	14153	[R]		2-20	98%~3%		2-18	97%~9%		2-20	99%~3%		2-20	97%~3%	
Vimar	20160	[RC]		2-14	94%~13%	< 15	2-18	94%~12%	< 19	2-20	86%~5%		2-12	89%~3%	< 13
Vimar	20162	[RL]	40 ~ 300 W	3-13	93%~14%		2-11	84%~11%	< 4	2-8 (max 16)	94%~4%	< 8	2-8 (max 12)	92%~3%	< 9
Dynalite	DDLE801		(100 W per channel)	T.B.D.	T.B.D.	T.B.D.	2-18	88%~9%		2-8	90%~3%		2-8	89%~3%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	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.

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

#4b) Yellow cells indication: Dimming range, minimum dim level 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.

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PHILIPS

September 2017

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

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				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		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286710	[RC]	20 ~ 360 W-Turn	2-5 (max 19)	96%~31%		2-5 (max 14)	93%~26%		2-21	92%~22%		2-10	90%~20%	
Berker |INSTA	283010	[R]	60 ~ 400 W-Turn	2-5 (max 21)	88%~16%		2-5 (max 16)	98%~23%		2-23	95%~14%		2-10	94%~8%	
Bticino	L4407	[]	60 ~ 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger |ABB	2200 U-503	[R]	60 ~ 400 W-Turn	3-5 (max 21)	88%~31%		2-5 (max 16)	92%~34%		2-23	95%~17%	< 2	2-10	94%~16%	< 2
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W-Turn	2-5 (max 21)	87%~6%		2-5 (max 16)	95%~9%		2-29	95%~3%		2-10	92%~3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W-Turn	2-5 (max 27)	91%~4%		2-5 (max 20)	98%~5%		2-34	95%~3%		2-10	92%~3%	
Busch Jaeger |ABB	6513 U-102	[RC]	40 ~ 420 W-Turn	2-5 (max 22)	98%~23%		2-5 (max 17)	96%~21%		2-24	96%~22%		2-10	96%~20%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA-LED-Turn	2-5 (max 27)	90%~3%		2-5 (max 20)	93%~3%		2-20	90%~3%		2-10	92%~3%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA-LED-Push (2wire)	2-20	92%~17%	< 5	2-20	95%~16%		2-20	87%~33%	< 3	2-20	89%~29%	
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)		N.A.	N.A.	2-5	93%~28%		2-23	91%~23%		2-10	88%~20%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	3-5 (max 17)	96%~9%		2-5 (max 12)	94%~7%		2-18	94%~5%		2-10	88%~3%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W		N.A.	N.A.	2-5 (max 17)	97%~15%			N.A.	N.A.		N.A.	N.A.
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	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.
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)		N.A.	N.A.	2-5	93%~28%		2-23	91%~23%		2-10	88%~20%	
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	3-5 (max 17)	96%~9%		2-5 (max 12)	94%~7%		2-18	94%~5%		2-10	88%~3%	
Feller| Schneider	40420 (SBD420)	[RLC]	420 W		N.A.	N.A.	2-5 (max 17)	97%~15%			N.A.	N.A.		N.A.	N.A.
GIRA	1176-00/01	[RLC]	50 ~ 420 W	2-20	90%~29%	< 9	2-17	93%~27%		2-20	96%~31%		2-20	94%~27%	
GIRA	2390 00/ 100	[LED]	7 ~ 100 W-Push (3wire)	3-8 (max 27)	91%~15%	< 3	2-5 (max 20)	91%~14%		2-29	91%~10%	< 2	2-10	92%~8%	
Hager	EVN 011	[RC]	300 VA	2-16	96%~22%	< 10	2-12	98%~21%		2-17	96%~13%	< 3	2-14	98%~13%	< 2
Hager	EVN 012	[RC]	300 W	2-16	96%~22%	< 11	2-12	97%~21%		2-17	98%~13%	< 3	2-14	98%~13%	< 7
Hager	EVN 004	[RL]	500 VA	2-20	95%~22%	< 11	2-20	99%~21%		2-20	98%~16%	< 19	2-20	98%~13%	< 8
Jung	225 TDE	[RC]	20 ~ 525 W-Turn	2-5 (max 28)	94%~33%		2-5 (max 21)	93%~28%		2-30	94%~25%		2-10	92%~24%	
Jung	1271LEDDE	[LED]	3 ~ 100W-Push (3wire)	2-5 (max 27)	89%~13%		2-5 (max 20)	93%~13%		2-29	91%~38%	< 2	2-10	92%~36%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W		82%~30%	<7	2-5	84%~32%		2-7	84%~29%	< 3	2-6	81%~28%	< 7
Klik aan Klik uit	ACM 300		300W-3-wire Push LED Dimmer		89%~14%	<7		90%~14%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Legrand	774161	[RL]	40 ~ 400 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-10	92%~8%	< 4
Legrand	78401	[RLC]	40 ~ 500W	2-20	91%~14%		2-16	93%~11%	<3	2-20	93%~13%	< 5	2-19	93%~13%	
Legrand	67081	[RL]	40 ~ 400 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-10	96%~16%	
Legrand	67082	[RL]	40 ~ 600 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 ~ 400W		83%~11%			96%~10%				N.A.		89%~10%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)	2-5 (max 16)	96%~22%	<5	2-5 (max 12)	95%~18%	<3	2-23	90%~6%	< 4	2-10	88%~3%	< 5
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	2-5 (max 16)	97%~3%		2-5 (max 12)	98%~3%		2-17	97%~3%		2-10	96%~3%	
Legrand	L4402N	[R]	60 ~ 500 W	5-20	88%~28%		2-20	93%~28%		10-20	84%~24%		5-20	83%~25%	
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)		N.A.	N.A.	2-5	93%~28%		2-23	91%~23%		2-10	88%~20%	
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	3-5 (max 17)	96%~9%		2-5 (max 12)	94%~7%		2-18	94%~5%		2-10	88%~3%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA		N.A.	N.A.	2-5 (max 17)	97%~15%			N.A.	N.A.		N.A.	N.A.
MK-Electric	K1535	[R]	65 ~ 450 W-Turn	2-8 (max 24)	71%~15%		2-8 (max 18)	85%~19%		2-26	83%~12%		2-10	80%~14%	
MK-Electric	K1501 WHILV	[R]	60 ~ 500 W-Turn	2-8 (max 27)	79%~17%		2-8 (max 20)	91%~18%		2-10	88%~14%		2-10	86%~14%	
MK-Electric	K4501 WHILV	[RLC]	180 W	2-12	85%~15%		2-9	86%~15%		3-13	87%~13%		2-10	85%~13%	
MK-Electric	K4500 WHILV	[RLC]	400 W	2-17	87%~15%		2-13	87%~15%			87%~13%		2-15	85%~13%	
NIKO	310-0280X	[LED]	2 ~ 100 VA	2-5	96%~6%		2-4	96%~5%		2-6	98%~24%		2-5	97%~23%	
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W	2-6	84%~6%		2-5	86%~7%		2-7	87%~31%		2-6	85%~29%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED-Push (3wire)	2-5 (max 27)	90%~3%		2-5 (max 20)	93%~3%		2-20	90%~3%		2-10	92%~3%	
RELCO	RP0977	[LED]	4-100W	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.
RELCO	RM0545	[LED]	4-100W	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.
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	3-5 (max 17)	96%~9%		2-5 (max 12)	94%~7%		2-18	94%~5%		2-10	88%~3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	3-5 (max 17)	96%~9%		2-5 (max 12)	94%~7%		2-18	94%~5%		2-10	88%~3%	
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA-Turn Universal (2wire)		N.A.	N.A.	2-5	93%~28%		2-23	91%~23%		2-10	88%~20%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	3-5 (max 17)	96%~9%		2-5 (max 12)	94%~7%		2-18	94%~5%		2-10	88%~3%	
VADSBO	ED 350	[RC]	50 ~ 350 W	2-19	89%~29%		2-14	87%~25%		2-20	91%~29%		2-15	88%~27%	
VADSBO	DRS 315	[RC]	50 ~ 315 W	3-17	92%~18%	< 18	2-13	93%~17%	< 14	10-18	93%~20%		2-15	93%~17%	< 11
VADSBO	DU 250	[RC]	20 ~ 250 W	3-14	83%~9%	< 15	2-10	83%~7%	< 11	2-14	89%~20%		2-12	83%~8%	< 11
Varilight	HQ3W	[R]	60-400 W	2-5 (max 21)	84%~8%		2-5 (max 16)	97%~11%		2-23	92%~8%		2-10	92%~6%	
Varilight	ICT401 M	[RC]	20-400 W	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.
Vimar	20148	[RL]	500 W	3-8 (max 27)	85%~17%	< 6	3-5 (max 20)	95%~17%	< 6	2-29	95%~16%	< 30	3-10	92%~8%	< 11
Vimar	14153	[R]			97%~4%		< 6	99%~3%			98%~3%		2-20	98%~3%	
Vimar	20160	[RC]		3-16	91%~11%	< 17	2-12	96%~9%	< 13	2-17	91%~9%		2-14	92%~8%	< 11
Vimar	20162	[RL]	40 ~ 300 W	3-8 (max 16)	92%~25%	< 6	2-5 (max 12)	94%~18%	< 6	2-17	91%~13%	< 18	2-10	88%~8%	< 11
Dynalite	DDLE801		(100 W per channel)	2-8	88%~8%		2-8	93%~9%		2-20	91%~9%		2-20	88%~8%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	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)

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PHILIPS

September 2017

Professional LED lamps MV range

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				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		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286710	[RC]	20 ~ 360 W-Turn	2-18	91%-3%		2-13	93%-3%		2-8	94%- 8%		2-8	92%- 3%	
Berker |INSTA	283010	[R]	60 ~ 400 W-Turn	2-20	93%-3%		2-15	96%-3%		2-8	87%- 3%		2-8	93%- 3%	
Bticino	L4407	[]	60 ~ 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger |ABB	2200 U-503	[R]	60 ~ 400 W-Turn	2-20	92%-3%		2-15	97%-3%		2-8	86%- 4%		2-8	92%- 3%	
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W-Turn	2-25	93%-3%		2-19	97%-3%		2-8	86%- 3%		2-8	94%- 3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W-Turn	2-30	95%-3%		2-22	98%-3%		2-8	89%- 3%		2-8	94%- 3%	
Busch Jaeger |ABB	6513 U-102	[RC]	40 ~ 420 W-Turn	2-21	94%-3%			N.A.		2-8	96%- 4%		2-8	94%- 3%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA-LED-Turn	2-20	90%-3%		2-19	92%-3%		2-8	89%- 3%		2-8	89%- 3%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA-LED-Push (2wire)	2-20	89%-3%		2-19	88%-9%		2-20	93%- 3%		2-20	94%- 3%	
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)	2-20	90%-3%		2-15	93%-3%			N.A.	N.A.	2-8	92%- 3%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	2-16	90%-3%		2-12	89%-3%		3- 8	95%- 3%		2-8	92%- 3%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8	95%- 3%	
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	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%	
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	2-20	90%-3%		2-15	93%-3%			N.A.	N.A.	2-8	92%- 3%	
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	2-16	90%-3%		2-12	89%-3%		3- 8	95%- 3%		2-8	92%- 3%	
Feller| Schneider	40420 (SBD420)	[RLC]	420 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8	95%- 3%	
GIRA	1176-00/01	[RLC]	50 ~ 420 W	2-20	93%-3%		2-16	91%-3%		2-20	93%- 3%		2-16	94%- 3%	
GIRA	2390 00/ 100	[LED]	7 ~ 100 W-Push (3wire)	2-25	90%-3%		2-19	94%-3%		2-8	91%- 3%		T.B.D.	T.B.D.	T.B.D.
Hager	EVN 011	[RC]	300 VA	2-15	93%-3%		2-11	97%-3%		2-17	98%- 5%		2-12	99%- 3%	
Hager	EVN 012	[RC]	300 W	2-15	93%-3%		2-11	97%-3%		2-17	98%- 5%		2-12	99%- 3%	
Hager	EVN 004	[RL]	500 VA	2-20	93%-3%		2-19	97%-3%		2-17	98%- 5%		2-20	97%- 3%	
Jung	225 TDE	[RC]	20 ~ 525 W-Turn	2-26	92%-3%		2-19	95%-3%		2-8	96%- 8%		2-8	91%- 3%	
Jung	1271LEDDE	[LED]	3 ~ 100W-Push (3wire)	2-25	90%-3%		2-19	95%-18%		2-8	91%- 3%		2-8	91%- 3%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W	2-6	86%-3%		2-4	85%-3%		2-7	83%- 7%	<3	2-5	78%- 3%	
Klik aan Klik uit	ACM 300		300W-3-wire Push LED Dimmer	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%	
Legrand	774161	[RL]	40 ~ 400 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	2-8	94%- 3%	
Legrand	78401	[RLC]	40 ~ 500W	2-20	89%-3%		2-15	91%-3%		2-20	95%- 3%		2-16	94%- 3%	
Legrand	67081	[RL]	40 ~ 400 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8	95%- 3%	
Legrand	67082	[RL]	40 ~ 600 W-Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3-8	94%- 3%	
Legrand	67083	[RLC]	3 ~ 400W		89%-3%			89%-3%		2-20	84%- 3%		2-16	81%- 3%	
Legrand	67084	[RLC]	8-300 VA -Push LED (3wire)		N.A.	N.A.		N.A.	N.A.	2-8	96%- 4%	<3	2-8	93%- 3%	
Legrand	67085 (078406)	[RLC]	8-300 VA -Push LED (3wire)	2-15	98%-3%			N.A.		2-8	99%- 3%		2-8	95%- 3%	
Legrand	L4402N	[R]	60 ~ 500 W	4-20	82%-3%			85%-3%			N.A.	N.A.	3-20	78%- 3%	
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	2-20	90%-3%		2-15	93%-3%			N.A.	N.A.	2- 8	92%- 3%	
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	2-16	90%-3%		2-12	89%-3%		3- 8	95%- 3%		2- 8	92%- 3%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3- 8	95%- 3%	
MK-Electric	K1535	[R]	65 ~ 450 W-Turn	2-23	80%-3%		2-17	83%-3%			N.A.	N.A.	2-8	70%- 3%	
MK-Electric	K1501 WHILV	[R]	60 ~ 500 W-Turn	2-25	86%-3%		2-19	90%-3%		2-8	80%- 3%		2-8	87%- 3%	
MK-Electric	K4501 WHILV	[RLC]	180 W	2-11	86%-3%		2-18	85%-3%		2-13	78%- 3%		2-9	86%- 3%	
MK-Electric	K4500 WHILV	[RLC]	400 W	2-16	86%-3%		2-12	85%-3%		2-20	77%- 3%		2-16	83%- 3%	
NIKO	310-0280X	[LED]	2 ~ 100 VA	2-5	89%-3%		2-5	97%-3%		2-6	98%- 3%		2-4	97%- 3%	
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W	2-10	82%-3%		2-4	88%-6%		2-3	76%- 3%		2-5	81%- 3%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED-Push (3wire)	2-20	90%-3%		2-19	92%-3%		2-8	89%- 3%		2-8	89%- 3%	
RELCO	RP0977	[LED]	4-100W	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%	
RELCO	RM0545	[LED]	4-100W	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%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	2-16	90%-3%		2-12	89%-3%		3-8	95%- 3%		2- 8	92%- 3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	2-16	90%-3%		2-12	89%-3%		3- 8	95%- 3%		2- 8	92%- 3%	
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA-Turn Universal (2wire)	2-20	90%-3%		2-15	93%-3%			N.A.	N.A.	2- 8	92%- 3%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	2-16	90%-3%		2-12	89%-3%		3- 8	95%- 3%		2- 8	92%- 3%	
VADSBO	ED 350	[RC]	50 ~ 350 W	2-18	86%-3%		2-13	88%-3%		2-20	90%- 7%		2- 14	88%- 4%	
VADSBO	DRS 315	[RC]	50 ~ 315 W	6-16	93%-3%		2-12	94%-3%			N.A.	N.A.	2- 13	93%- 3%	
VADSBO	DU 250	[RC]	20 ~ 250 W	2-13	86%-3%		2-9	85%-3%		2-14	91%- 3%		2-10	80%- 3%	<11
Varilight	HQ3W	[R]	60-400 W	2-20	92%-3%		2-15	97%-3%		2-8	85%- 3%		2-8	93%- 3%	
Varilight	ICT401 M	[RC]	20-400 W	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%	
Vimar	20148	[RL]	500 W	3-25	93%-3%		2-19	94%-3%		2-8	87%- 3%	<9	3-8	92%- 3%	<9
Vimar	14153	[R]		2-20	93%-3%		2-19	97%-3%		2-8	97%- 3%		2-20	94%- 3%	
Vimar	20160	[RC]		2-15	89%-3%		2-11	94%-3%		2-20	83%- 3%	<9	3-20	94%- 3%	<14
Vimar	20162	[RL]	40 ~ 300 W	2-15	90%-3%		2-11	92%-3%		2-8	94%- 4%	<9	2-8	91%- 3%	<9
Dynalite	DDLE801		(100 W per channel)	2-20	93%-3%		2-19	88%-3%		2-8	90%- 3%		2-8	89%- 3%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	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 performace of LED products.
Philips cannot be held responsible for inaccuracies in the compatibility lists due to technical changes in dimmers

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

PHILIPS

September 2017

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

				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								
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286710	[RC]	20 ~ 360 W - Turn	3-13	86%~3%		1 - 10	91%-12%		1-8	92%~9%		1-5	91%~11%	
Berker |INSTA	283010	[R]	60 ~ 400 W - Turn	3-15	88%~3%		1 - 5	93%-6%		1-9	95%~10%		1-5	93%~9%	
Bticino	L4407	[]	60 ~ 250 W	T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger |ABB	2200 U - 503	[R]	60 ~ 400 W - Turn	3-15	90%~10%		1 - 10	93%-6%		2-5	95%~18%		1-5	93%~14%	
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W - Turn	3-18	89%~3%		1 - 14	92%-3%		1-12	94%~3%		1-5	93%~3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W - Turn	3-22	90%~3%		1 - 8	95%-3%		1-10	98%~3%		1-5	94%~3%	
Busch Jaeger |ABB	6513 U - 102	[RC]	40 ~ 420 W - Turn	3-15	92%~3%		1 - 15	92%-12%		1-10	94%~8%		1-5	93%~10%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA - LED - Turn	3-18	85%~3%		1 - 14	93%-3%		1-20	95%~3%		1-5	93%~3%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA - LED - Push (2wire)	T.B.D.	T.B.D.	T.B.D.	1 - 17	94%-10%		2-12	95%~9%		1-5	96%~9%	
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)	3-15	88%~3%		1 - 10	92%-14%		1-9	93%~12%		1-5	92%~13%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	3-11	90%~3%		1 - 9	92%-4%		1-7	92%~3%		1-5	93%~3%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W	3-15	90%~3%		1 - 12	94%-7%		1-10	94%~4%		1-5	99%~5%	
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	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.
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	3-15	88%~3%		1 - 10	92%-14%		1-9	93%~12%		1-5	92%~13%	
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	3-11	90%~3%		1 - 9	92%-4%		1-7	92%~3%		1-5	93%~3%	
Feller| Schneider	40420 (SBD420)	[RLC]	420 W	3-15	90%~3%		1 - 12	94%-7%		1-10	94%~4%		1-5	99%~5%	
GIRA	1176-00/01	[RLC]	50 ~ 420 W	T.B.D.	T.B.D.	T.B.D.	1 - 14	96%-17%		2-10	95%~15%		1-5	92%~15%	
GIRA	2390 00/ 100	[LED]	7 ~ 100 W - Push (3wire)	3-18	90%~21%		1 - 10	93%-3%		1-12	95%~3%		1-5	90%~24%	
Hager	EVN 011	[RC]	300 VA	T.B.D.	T.B.D.	T.B.D.	1 - 10	98%-8%		2-7	97%~6%		1-5	92%~6%	
Hager	EVN 012	[RC]	300 W	T.B.D.	T.B.D.	T.B.D.	1 - 10	98%-13%		2-7	96%~6%		1-5	92%~10%	
Hager	EVN 004	[RL]	500 VA	T.B.D.	T.B.D.	T.B.D.	1 - 17	98%-14%		2-12	97%~6%		1-5	93%~12%	
Jung	225 TDE	[RC]	20 ~ 525 W - Turn	3-19	85%~3%		1 - 15	98%-13%		2-12	93%~11%		1-5	92%~11%	
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)	3-18	90%~21%		1 - 10	92%-3%		1-12	95%~3%		1-5	93%~3%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W	T.B.D.	T.B.D.	T.B.D.	1 - 4	93%-19%		2-3	90%~19%		1-3	87%~18%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	T.B.D.	T.B.D.	T.B.D.	1 - 10	58%-3%		2-7	75%~3%		1-5	84%~3%	
Legrand	774161	[RL]	40 ~ 400 W - Turn		N.A.	N.A.	2 - 11	93%-6%		1-9	97%~7%			N.A.	N.A.
Legrand	78401	[RLC]	40 ~ 500W	T.B.D.	T.B.D.	T.B.D.	1 - 13	94%-7%		2-9	93%~5%		1-5	91%~7%	
Legrand	67081	[RL]	40 ~ 400 W - Turn		N.A.	N.A.	2 - 9	94%-5%		1-7	98%~7%		1-5	98%~7%	
Legrand	67082	[RL]	40 ~ 600 W - Turn		N.A.	N.A.	2 - 15	94%-5%		1-2	97%~7%		1-5	99%~6%	
Legrand	67083	[RLC]	3 ~ 400W	T.B.D.	T.B.D.	T.B.D.	1 - 3	94%-3%		2-9	92%~3%		1-5	88%~3%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	3-15	90%~3%		1 - 11	93%-8%		1-9	94%~5%		1-5	96%~6%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	3-11	95%~3%		1 - 9	97%-3%		1-7	98%~2%		1-5	96%~3%	
Legrand	L4402N	[R]	60 ~ 500 W	T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	3-15	88%~3%		1 - 10	92%-14%		1-9	93%~12%		1-5	92%~13%	
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	3-11	90%~3%		1 - 9	92%-4%		1-7	92%~3%		1-5	93%~3%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA	3-15	90%~3%		1 - 12	94%-7%		1-10	94%~4%		1-5	99%~5%	
MK - Electric	K1535	[R]	65 ~ 450 W - Turn	3-16	83%~3%		1 - 13	77%-7%		1-11	80%~8%		1-5	85%~7%	
MK - Electric	K1501 WHILV	[R]	60 ~ 500 W - Turn	3-18	83%~3%		1 - 15	96%-30%		1-12	92%~7%		1-5	98%~29%	
MK - Electric	K4501 WHILV	[RLC]	180 W	T.B.D.	T.B.D.	T.B.D.	1 - 7	92%-5%		2-5	99%~28%		1-5	99%~25%	
MK - Electric	K4500 WHILV	[RLC]	400 W	T.B.D.	T.B.D.	T.B.D.	1 - 11	99%-29%		2-9	99%~28%		1-5	99%~25%	
NIKO	310-0280X	[LED]	2 ~ 100 VA	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%	
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W	T.B.D.	T.B.D.	T.B.D.	1 - 4	95%-3%		2-3	92%~3%		1-3	90%~3%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)	3-18	85%~3%		1 - 14	93%-3%		1-20	95%~3%		1-5	93%~3%	
RELCO	RP0977	[LED]	4 - 100W	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.
RELCO	RM0545	[LED]	4 - 100W	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.
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	3-11	90%~3%		1 - 9	92%-4%		1-7	92%~3%		1-5	93%~3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	3-11	90%~3%		1 - 9	92%-4%		1-7	92%~3%		1-5	93%~3%	
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA - Turn Universal (2wire)	3-15	88%~3%		1 - 10	92%-14%		1-9	93%~12%		1-5	92%~13%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	3-11	90%~3%		1 - 9	92%-4%		1-7	92%~3%		1-5	93%~3%	
VADSBO	ED 350	[RC]	50 ~ 350 W	T.B.D.	T.B.D.	T.B.D.	1 - 12	93%-14%		2-8	90%~13%		1-5	86%~12%	
VADSBO	DRS 315	[RC]	50 ~ 315 W	T.B.D.	T.B.D.	T.B.D.	1 - 11	95%-10%		2-7	94%~9%		1-5	89%~8%	
VADSBO	DU 250	[RC]	20 ~ 250 W	T.B.D.	T.B.D.	T.B.D.	1 - 14	96%-17%		2-6	82%~3%		1-5	78%~3%	
Varilight	HQ3W	[R]	60 - 400 W	3-15	88%~3%		1 - 8	91%-5%		2-9	97%~6%		1-5	93%~3%	
Varilight	ICT401 M	[RC]	20 - 400 W	T.B.D.	T.B.D.	T.B.D.	1 - 13	94%-5%		2-9	93%~10%		1-5	92%~3%	
Vimar	20148	[RL]	500 W	3-18	89%~3%		1 - 14	92%-4%		1-12	95%~3%		1-5	97%~5%	
Vimar	14153	[R]		T.B.D.	T.B.D.	T.B.D.	1 - 15	99%-3%		2-12	99%~3%		2-5	97%~5%	
Vimar	20160	[RC]		3-15	88%~3%	T.B.D.	1 - 10	95%-3%		2-12	93%~3%		1-5	90%~3%	
Vimar	20162	[RL]	40 ~ 300 W	3-11	88%~3%		1 - 9	91%-7%		1-7	92%~4%		1-5	94%~5%	
Dynalite	DDLE801		(100 W per channel)	T.B.D.	T.B.D.	T.B.D.	1 - 14	95%-3%		1-12	96%~3%		1-5	95%~3%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	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 performace of LED products.
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PHILIPS

September 2017

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

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				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		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286710	[RC]	20 ~ 360 W - Turn	1 - 8	93%-12%		1-5	88%-3%		1-5	97%-3%		1 - 5	94%-13%	
Berker |INSTA	283010	[R]	60 ~ 400 W - Turn	1 - 8	96%-11%			N.A.	N.A.	5	96%-3%		1 - 5	96%-12%	
Bticino	L4407	[]	60 ~ 250 W		N.A.	N.A.		N.A.	N.A.	1-3	59%-3%			N.A.	N.A.
Busch Jaeger |ABB	2200 U - 503	[R]	60 ~ 400 W - Turn	1 - 8	95%-11%		2-5	90%-3%			N.A.	N.A.	1 - 8	97%-57%	
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W - Turn	1 - 11	94%-3%		1-5	92%-3%		5	99%-3%		1 - 8	95%-3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W - Turn	1 - 13	96%-3%		2-5	94%-3%		5	98%-3%		1 - 9	96%-3%	
Busch Jaeger |ABB	6513 U - 102	[RC]	40 ~ 420 W - Turn	1 - 9	93%-12%		1-5	91%-3%		1-5	99%-3%		1	93%-12%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA - LED - Turn	1 - 11	95%-3%		1-5	90%-3%			N.A.	N.A.	1 - 15	96%-3%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA - LED - Push (2wire)	1 - 11	95%-12%		1-5	94%-3%		1-5	96%-3%		1 - 8	93%-11%	
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)	1 - 8	92%-18%			N.A.	N.A.	1-5	98%-3%		1 - 5	93%-15%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	1 - 7	94%-4%		2-5	84%-3%		1-5	99%-3%		1 - 5	94%-4%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W	1 - 9	96%-7%		1-5	92%-22%		1-5	98%-3%			N.A.	N.A.
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	1 - 8	95%-7%		1-5	99%-3%			N.A.	N.A.	1 - 6	96%-8%	
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	1 - 8	92%-18%			N.A.	N.A.	1-5	98%-3%		1 - 5	93%-15%	
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	1 - 7	94%-4%		2-5	84%-3%		1-5	99%-3%		1 - 5	94%-4%	
Feller| Schneider	40420 (SBD420)	[RLC]	420 W	1 - 9	96%-7%		1-5	92%-22%		1-5	98%-3%			N.A.	N.A.
GIRA	1176-00/01	[RLC]	50 ~ 420 W	1 - 9	88%-7%		1-5	84%-8%			N.A.	N.A.		N.A.	N.A.
GIRA	2390 00/ 100	[LED]	7 ~ 100 W - Push (3wire)	1 - 9	97%-3%		1-5	88%-3%			N.A.	N.A.	1 - 5	94%-4%	
Hager	EVN 011	[RC]	300 VA	1 - 6	96%-6%			N.A.	N.A.		N.A.	N.A.	5	97%-9%	
Hager	EVN 012	[RC]	300 W	1 - 6	96%-14%		1-5	98%-3%			N.A.	N.A.	5	97%-14%	
Hager	EVN 004	[RL]	500 VA	1 - 11	97%-14%		1-5	99%-3%			N.A.	N.A.	8	97%-14%	
Jung	225 TDE	[RC]	20 ~ 525 W - Turn	1 - 11	93%-13%		1-5	91%-3%		1-5	97%-3%		1 - 8	92%-14%	
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)	1 - 10	94%-3%		1-5	88%-3%			N.A.	N.A.	1 - 8	95%-3%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W	1 - 3	89%-20%			N.A.	N.A.		N.A.	N.A.	1 - 2	92%-21%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	1 - 6	84%-3%			N.A.	N.A.		N.A.	N.A.	1 - 5	81%-3%	
Legrand	774161	[RL]	40 ~ 400 W - Turn	1 - 8	96%-6%			N.A.	N.A.	5	97%-3%		1 - 6	97%-7%	
Legrand	78401	[RLC]	40 ~ 500W	5- 8	93%-8%		1-5	94%-3%			N.A.	N.A.		N.A.	N.A.
Legrand	67081	[RL]	40 ~ 400 W - Turn	1 - 6	96%-3%			N.A.	N.A.		N.A.	N.A.	1 - 5	98%-7%	
Legrand	67082	[RL]	40 ~ 600 W - Turn	1 - 13	96%-3%			N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 ~ 400W	1 - 2	89%-3%			N.A.	N.A.		N.A.	N.A.	1 - 6	92%-3%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	1 - 8	94%-3%			N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	1 - 6	98%-3%		1-5	91%-3%		1-5	96%-3%			N.A.	N.A.
Legrand	L4402N	[R]	60 ~ 500 W		N.A.	N.A.	3-5	88%-8%			N.A.	N.A.	2- 3	91%-15%	
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	1 - 8	92%-18%			N.A.	N.A.	1-5	98%-3%		1 - 5	93%-15%	
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	1 - 7	94%-4%		2-5	84%-3%		1-5	99%-3%		1 - 5	94%-4%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA	1 - 9	96%-7%		1-5	92%-22%		1-5	98%-3%			N.A.	N.A.
MK - Electric	K1535	[R]	65 ~ 450 W - Turn	1 - 5	84%-5%			N.A.	N.A.		N.A.	N.A.	1 - 7	88%-10%	
MK - Electric	K1501 WHILV	[R]	60 ~ 500 W - Turn	1 - 7	84%-5%		1-5	86%-3%			N.A.	N.A.	1 - 8	93%-6%	
MK - Electric	K4501 WHILV	[RLC]	180 W	1 - 9	93%-8%		1-5	85%-3%			N.A.	N.A.	1 - 3	92%-8%	
MK - Electric	K4500 WHILV	[RLC]	400 W	1 - 11	93%-6%		1-5	86%-3%			N.A.	N.A.	1 - 6	91%-6%	
NIKO	310-0280X	[LED]	2 ~ 100 VA	1 - 2	86%-4%		1-4	96%-3%			N.A.	N.A.	1 - 2	94%-5%	
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W	1 - 3	86%-3%		1-4	86%-4%			N.A.	N.A.	1 - 2	91%-3%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)	1 - 11	95%-3%		1-5	90%-3%			N.A.	N.A.	1 - 15	96%-3%	
RELCO	RP0977	[LED]	4 - 100W	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%	
RELCO	RM0545	[LED]	4 - 100W	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%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	1 - 7	94%-4%		2-5	84%-3%		1-5	99%-3%		1 - 5	94%-4%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	1 - 7	94%-4%		2-5	84%-3%		1-5	99%-3%		1 - 5	94%-4%	
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA - Turn Universal (2wire)	1 - 8	92%-18%			N.A.	N.A.	1-5	98%-3%		1 - 5	93%-15%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	1 - 7	94%-4%		2-5	84%-3%		1-5	99%-3%		1 - 5	94%-4%	
VADSBO	ED 350	[RC]	50 ~ 350 W	1 - 7	82%-13%		1-5	87%-7%		1-5	90%-3%		1 - 5	90%-1%	
VADSBO	DRS 315	[RC]	50 ~ 315 W	1 - 7	90%-10%			N.A.	N.A.		N.A.	N.A.	1 - 5	94%-11%	
VADSBO	DU 250	[RC]	20 ~ 250 W	1 - 5	88%-15		1-5	82%-3%			N.A.	N.A.		N.A.	N.A.
Varilight	HQ3W	[R]	60 - 400 W	1 - 8	95%-4%		3-5	91%-3%			N.A.	N.A.	1 - 6	94%-5%	
Varilight	ICT401 M	[RC]	20 - 400 W	1 - 8	89%-5%		1-5	85%-3%		1-5	98%-3%		1 - 6	93%-5%	
Vimar	20148	[RL]	500 W	1 - 11	97%-3%		3-5	96%-4%			N.A.	N.A.	1 - 8	95%-5%	
Vimar	14153	[R]		1 - 11	89%-3%		1-5	97%-3%			N.A.	N.A.	1 - 8	96%-3%	
Vimar	20160	[RC]		1 - 6	90%-3%		1-5	90%-3%			N.A.	N.A.	1 - 8	92%-3%	
Vimar	20162	[RL]	40 ~ 300 W	1 - 6	96%-8%		1-5	89%-3%		1-5	98%-3%		1 - 5	35%-7%	
Dynalite	DDLE801		(100 W per channel)	1 - 11	93%-3%			N.A.	N.A.		N.A.	N.A.	1 - 8	94%-3%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	1 - 9	96%-3%		1-5	90%-3%		1-5	99%-3%		1 - 7	93%-4%	

Note :

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PHILIPS

September 2017

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
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T.B.D.	Dimmer lamp combination not tested

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				LED spot					
				CorePro LEDspot MV 5W-60W R5			CorePro LEDspot MV -60W R63		
Brand	**Type**	**Type**	**Load**	**Dimming Performance**	**Dimming Range**	**Glowing**	**Dimming Performance**	**Dimming Range**	**Glowing**
Berker |INSTA	286710	[RC]	20 ~ 360 W - Turn	2-10	90%~20%		2-15	97%~20%	
Berker |INSTA	283010	[R]	60 ~ 400 W - Turn	2-10	94%~8%		T.B.D.	T.B.D.	T.B.D.
Bticino	L4407	[]	60 ~ 250 W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.
Busch Jaeger |ABB	2200 U - 503	[R]	60 ~ 400 W - Turn	2-10	94%~16%	< 2	2-15	97%~36%	< 16
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W - Turn	2-10	92%~3%		2-20	98%~3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W - Turn	2-10	92%~3%		2-20	98%~3%	
Busch Jaeger |ABB	6513 U - 102	[RC]	40 ~ 420 W - Turn	2-10	96%~20%		2-15	98%~21%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA - LED - Turn	2-10	92%~3%		2-20	95%~3%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA - LED - Push (2wire)	1-16	95%~20%		T.B.D.	T.B.D.	T.B.D.
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)	2-10	88%~20%		2-10	99%~26%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	2-10	88%~3%		2-10	97%~3%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W		N.A.	N.A.		N.A.	N.A.
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	1-16	97%~12%	<17	T.B.D.	T.B.D.	T.B.D.
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	2-10	88%~20%		2-10	99%~26%	
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	2-10	88%~3%		2-10	97%~3%	
Feller| Schneider	40420 (SBD420)	[RLC]	420 W		N.A.	N.A.		N.A.	N.A.
GIRA	1176-00/01	[RLC]	50 ~ 420 W	1-16	94%~30%		T.B.D.	T.B.D.	T.B.D.
GIRA	2390 00/ 100	[LED]	7 ~ 100 W - Push (3wire)	2-10	92%~8%		2-19	95%~7%	
Hager	EVN 011	[RC]	300 VA	1-12	97%~14%	< 13	T.B.D.	T.B.D.	T.B.D.
Hager	EVN 012	[RC]	300 W	1-12	96%~15%	< 13	T.B.D.	T.B.D.	T.B.D.
Hager	EVN 004	[RL]	500 VA	1-16	97%~15%	< 3	T.B.D.	T.B.D.	T.B.D.
Jung	225 TDE	[RC]	20 ~ 525 W - Turn	2-10	92%~24%		2-20	98%~25%	
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)	2-10	92%~36%		2-20	96%~46%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W	1-5	79%~31%		T.B.D.	T.B.D.	T.B.D.
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	1-12	87%~14%		T.B.D.	T.B.D.	T.B.D.
Legrand	774161	[RL]	40 ~ 400 W - Turn	3-10	92%~8%	< 4		N.A.	N.A.
Legrand	78401	[RLC]	40 ~ 500W	1-16	95%~14%		3-10	97%~15%	
Legrand	67081	[RL]	40 ~ 400 W - Turn	3-10	96%~16%		T.B.D.	T.B.D.	T.B.D.
Legrand	67082	[RL]	40 ~ 600 W - Turn		N.A.	N.A.	3-20	97%~14%	
Legrand	67083	[RLC]	3 ~ 400W	2-16	90%~12%		T.B.D.	T.B.D.	T.B.D.
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	2-10	88%~3%	< 5	2-15	97%~3%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	2-10	96%~3%		2-11	99%~3%	
Legrand	L4402N	[R]	60 ~ 500 W	2-16	95%~20%		T.B.D.	T.B.D.	T.B.D.
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	2-10	88%~20%		2-10	99%~26%	
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	2-10	88%~3%		2-10	97%~3%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA		N.A.	N.A.		N.A.	N.A.
MK - Electric	K1535	[R]	65 ~ 450 W - Turn	2-10	80%~14%		2-17	87%~16%	
MK - Electric	K1501 WHILV	[R]	60 ~ 500 W - Turn	2-10	86%~14%		2-19	93%~16%	
MK - Electric	K4501 WHILV	[RLC]	180 W	1-9	90%~17%		T.B.D.	T.B.D.	T.B.D.
MK - Electric	K4500 WHILV	[RLC]	400 W	1-16	89%~18%		T.B.D.	T.B.D.	T.B.D.
NIKO	310-0280X	[LED]	2 ~ 100 VA	1-4	86%~6%		T.B.D.	T.B.D.	T.B.D.
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W	1-5	89%~7%		T.B.D.	T.B.D.	T.B.D.
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)	2-10	92%~3%		2-20	95%~3%	
RELCO	RP0977	[LED]	4 - 100W	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
RELCO	RM0545	[LED]	4 - 100W	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	2-10	88%~3%		2-10	97%~3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	2-10	88%~3%		2-10	97%~3%	
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA - Turn Universal (2wire)	2-10	88%~20%		2-10	99%~26%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	2-10	88%~3%		2-10	97%~3%	
VADSBO	ED 350	[RC]	50 ~ 350 W	1-14	88%~27%		T.B.D.	T.B.D.	T.B.D.
VADSBO	DRS 315	[RC]	50 ~ 315 W	2-13	95%~19%	< 14	T.B.D.	T.B.D.	T.B.D.
VADSBO	DU 250	[RC]	20 ~ 250 W	1-10	85%~9%	< 11	T.B.D.	T.B.D.	T.B.D.
Varilight	HQ3W	[R]	60 - 400 W	2-10	92%~6%		2-15	99%~4%	
Varilight	ICT401 M	[RC]	20 - 400 W	1-16	89%~6%		T.B.D.	T.B.D.	T.B.D.
Vimar	20148	[RL]	500 W	3-10	92%~8%	< 11	2-19	96%~13%	< 4
Vimar	14153	[R]		1-16	99%~6%		T.B.D.	T.B.D.	T.B.D.
Vimar	20160	[RC]		2-16	94%~11%	< 17	T.B.D.	T.B.D.	T.B.D.
Vimar	20162	[RL]	40 ~ 300 W	2-10	88%~8%	< 11	2-11	97%~9%	< 5
Dynalite	DDLE801		(100 W per channel)	T.B.D.	T.B.D.	T.B.D.	2-19	99%~3%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	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. 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

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PHILIPS

September 2017

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

				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		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286710	[RC]	20 ~ 360 W - Turn	1-3 (max 12)	87%~3%		1-3 (max 8)	98%~4%		1-3	98%~8%		1-3	94%~7%	
Berker |INSTA	283010	[R]	60 ~ 400 W - Turn	1-3 (max 13)	90%~3%		1-3 (max 9)	95%~3%		1-3	98%~7%		1-3	96%~5%	
Bticino	L4407	[]	60 ~ 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger |ABB	2200 U - 503	[R]	60 ~ 400 W - Turn	1-3 (max 13)	93%~3%		1-3 (max 9)	94%~5%		1-3	97%~19%		1-3	94%~9%	
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W - Turn	1-3 (max 13)	90%~3%		1-3 (max 9)	95%~3%		1-3	99%~3%		1-3	95%~3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W - Turn	1-3 (max 17)	92%~3%		1-3 (max 11)	95%~3%		1-3	97%~3%		1-3	97%~3%	
Busch Jaeger |ABB	6513 U - 102	[RC]	40 ~ 420 W - Turn	1-3 (max 14)	94%~8%		1-3 (max 9)	96%~5%		1-3	98%~7%		1-3	95%~6%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA - LED - Turn	1-3 (max 17)	86%~3%		1-3 (max 11)	89%~3%		1-3	83%~3%		1-3	89%~3%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA - LED - Push (2wire)	1-3 (max 17)	91%~4%		1-3 (max 11)	88%~5%		1-3	88%~10%		1-3	97%~6%	
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)	1-3 (max 6)	88%~3%		1-3 (max 4)	90%~4%			N.A.	N.A.	2-3	93%~8%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	1-3 (max 11)	93%~3%		1-3 (max 7)	92%~3%		1-3	98%~3%		1-3	94%~2%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W	1-3 (max 11)	89%~3%		1-3 (max 7)	95%~3%			N.A.	N.A.		N.A.	N.A.
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	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%	
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	1-3 (max 6)	88%~3%		1-3 (max 4)	90%~4%			N.A.	N.A.	2-3	93%~8%	
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	1-3 (max 11)	93%~3%		1-3 (max 7)	92%~3%		1-3	98%~3%		1-3	94%~2%	
Feller| Schneider	40420 (SBD420)	[RLC]	420 W	1-3 (max 11)	89%~3%		1-3 (max 7)	95%~3%			N.A.	N.A.		N.A.	N.A.
GIRA	1176-00/01	[RLC]	50 ~ 420 W	1-3 (max 14)	93%~5%		1-3 (max 9)	88%~5%		1-3	99%~19%			N.A.	N.A.
GIRA	2390 00/ 100	[LED]	7 ~ 100 W - Push (3wire)	1-3 (max 17)	86%~3%		1-3 (max 11)	91%~3%		1-3	97%~31%		1-3	95%~17%	
Hager	EVN 011	[RC]	300 VA	1-3 (max 10)	98%~3%		1-3 (max 7)	93%~3%		1-3	98%~8%		1-3	99%~7%	
Hager	EVN 012	[RC]	300 W	1-3 (max 10)	98%~3%		1-3 (max 7)	93%~3%		1-3	98%~12%		1-3	99%~6%	
Hager	EVN 004	[RL]	500 VA	1-3 (max 17)	98%~3%		1-3 (max 11)	93%~3%		1-3	99%~13%		1-3	99%~6%	
Jung	225 TDE	[RC]	20 ~ 525 W - Turn	1-3 (max 18)	93%~3%		1-3 (max 12)	96%~5%		1-3	98%~9%		1-3	96%~8%	
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)	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.
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W	1-3 (max 4)	82%~4%		1-3 (max 2)	83%~5%			N.A.	N.A.	1-3	89%~8%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	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%	
Legrand	774161	[RL]	40 ~ 400 W - Turn			N.A.		N.A.	N.A.		N.A.	N.A.	2-3	96%~5%	
Legrand	78401	[RLC]	40 ~ 500W	1-3 (max 17)	96%~3%		1-3 (max 11)	93%~3%		1-3	98%~7%		1-3	97%~4%	
Legrand	67081	[RL]	40 ~ 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	2-3	97%~5%	
Legrand	67082	[RL]	40 ~ 600 W - Turn		N.A.	N.A.		N.A.	N.A.	3	98%~5%		2-3	97%~5%	
Legrand	67083	[RLC]	3 ~ 400W		N.A.	N.A.	1-3 (max 9)	90%~3%			N.A.	N.A.	1-2	89%~3%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	1-3 (max 10)	95%~3%		1-3 (max 7)	95%~3%		2-3	99%~6%		1-3	98%~6%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	1-3 (max 10)	88%~17%		1-3 (max 7)	95%~3%		1-3	99%~3%		1-3	96%~3%	
Legrand	L4402N	[R]	60 ~ 500 W		N.A.	N.A.	1-3 (max 11)	83%~5%		2-3	97%~13%		2-3	89%~6%	
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	1-3 (max 6)	88%~3%		1-3 (max 4)	90%~4%			N.A.	N.A.	2-3	93%~8%	
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	1-3 (max 11)	93%~3%		1-3 (max 7)	92%~3%		1-3	98%~3%		1-3	94%~2%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA	1-3 (max 14)	89%~3%		1-3 (max 9)	95%~3%			N.A.	N.A.		N.A.	N.A.
MK - Electric	K1535	[R]	65 ~ 450 W - Turn		N.A.	N.A.	1-3 (max 10)	80%~3%		1-3	99%~6%		1-3	84%~5%	
MK - Electric	K1501 WHILV	[R]	60 ~ 500 W - Turn	1-3 (max 17)	85%~3%		1-3 (max 11)	90%~3%		1-3	97%~6%		1-3	90%~5%	
MK - Electric	K4501 WHILV	[RLC]	180 W	1-3 (max 6)	88%~3%		1-3 (max 4)	83%~3%		1-3	96%~7%		1-3	90%~3%	
MK - Electric	K4500 WHILV	[RLC]	400 W	1-3 (max 13)	88%~3%		1-3 (max 9)	85%~3%		1-3	95%~7%		1-3	90%~3%	
NIKO	310-0280X	[LED]	2 ~ 100 VA	1-3 (max 17)	98%~4%		1-3 (max 11)	95%~5%		1-3	98%~3%		1-2	99%~3%	
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W	1-3 (max 10)	88%~4%		1-3 (max 7)	83%~5%		1-3	98%~21%		1-3	92%~3%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)	1-3 (max 17)	86%~3%		1-3 (max 11)	89%~3%		1-3	83%~3%		1-3	89%~3%	
RELCO	RP0977	[LED]	4 - 100W	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%	
RELCO	RM0545	[LED]	4 - 100W	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%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	1-3 (max 11)	93%~3%		1-3 (max 7)	92%~3%		1-3	98%~3%		1-3	94%~2%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	1-3 (max 11)	93%~3%		1-3 (max 7)	92%~3%		1-3	98%~3%		1-3	94%~2%	
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA - Turn Universal (2wire)	1-3 (max 13)	88%~3%		1-3 (max 9)	90%~4%			N.A.	N.A.	2-3	93%~8%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	1-3 (max 11)	93%~3%		1-3 (max 7)	90%~4%		1-3	98%~3%		1-3	94%~2%	
VADSBO	ED 350	[RC]	50 ~ 350 W	1-3 (max 12)	91%~5%		1-3 (max 8)	85%~5%		1-3	99%~25%		1-3	94%~8%	
VADSBO	DRS 315	[RC]	50 ~ 315 W		N.A.	N.A.	1-3 (max 7)	93%~3%	<2		N.A.	N.A.		N.A.	N.A.
VADSBO	DU 250	[RC]	20 ~ 250 W	1-3 (max 8)	88%~3%	<4	1-3 (max 5)	83%~3%	<4	1-3	96%~6%		1-3	90%~3%	
Varilight	HQ3W	[R]	60 - 400 W	1-3 (max 13)	92%~3%		1-3 (max 9)	99%~3%		1-3	96%~4%		1-3	96%~3%	
Varilight	ICT401 M	[RC]	20 - 400 W	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%	
Vimar	20148	[RL]	500 W		N.A.	N.A.		N.A.	N.A.	1-3	97%~5%	<3	1-3	96%~4%	<2
Vimar	14153	[R]		1-3	98%~3%		1-3	98%~3%		2-3	98%~3%		1-3	95%~6%	
Vimar	20160	[RC]			N.A.	N.A.	1-3	93%~3%	<4	2-3	95%~3%	<2	1-3	96%~3%	<2
Vimar	20162	[RL]	40 ~ 300 W		N.A.	N.A.		N.A.	N.A.	1-3	98%~7%	<3	1-3	95%~9%	<2
Dynalite	DDLE801		(100 W per channel)	1-3	95%~3%		1-3	93%~3%		1-3	96%~3%		1-3	93%~3%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	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)
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#4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional lightsources. (e.g. flickering where "active loads" can reduce your problems)
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#7) This list is based on measurements in a lab environment with nominal voltage, a different voltage will result in a different dimming range. Therefor we indicated 3% as minimum lightlevel as labcondition.
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PHILIPS

September 2017

Professional LED lamps MV range

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T.B.D.	Dimmer lamp combination not tested

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				LED bulb											
				Master LEDbulb 11W-75W frosted DimTone			Master LEDbulb 15W-100W frosted DimTone			CorePro LEDbulb 6W-40W			CorePro LEDbulb 8.5W-60W		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286710	[RC]	20 ~ 360 W - Turn	1-3	87%~10%		1-3	89%~9%		1-3	94%~3%		1-3	95%~3%	
Berker |INSTA	283010	[R]	60 ~ 400 W - Turn	1-3	93%~10%		1-3	91%~9%		1-3	96%~3%		1-3	92%~11%	
Bticino	L4407	[]	60 ~ 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger |ABB	2200 U - 503	[R]	60 ~ 400 W - Turn	1-3	93%~17%		1-3	91%~22%		1-3	98%~9%		1-3	94%~15%	
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W - Turn	1-3	93%~3%		1-3	93%~3%			N.A.	N.A.	1-3	95%~3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W - Turn	1-3	93%~3%		1-3	93%~3%		1-3	99%~3%		1-3	92%~3%	
Busch Jaeger |ABB	6513 U - 102	[RC]	40 ~ 420 W - Turn	1-3	93%~10%		1-3	91%~10%			98%~5%			92%~4%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA - LED - Turn	1-3	87%~3%		1-3	87%~3%		1-3	94%~3%		1-3	94%~3%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA - LED - Push (2wire)	1-3	98%~10%		1-3	98%~11%		1-3	91%~13%		1-3	92%~19%	
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)	1-3	90%~10%		1-3	89%~10%		3	91%~3%		1-3	91%~7%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	1-3	87%~3%		1-3	84%~3%		1-3	93%~3%		1-3	98%~3%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W	1-3	93%~7%		1-3	91%~4%		1-3	91%~3%		1-3	93%~3%	
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	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.
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	1-3	90%~10%		1-3	89%~10%		3	91%~3%		1-3	91%~7%	
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	1-3	87%~3%		1-3	84%~3%		1-3	93%~3%		1-3	98%~3%	
Feller| Schneider	40420 (SBD420)	[RLC]	420 W	1-3	93%~7%		1-3	91%~4%		1-3	91%~3%		1-3	93%~3%	
GIRA	1176-00/01	[RLC]	50 ~ 420 W	1-3	93%~24%		1-3	93%~24%		1-3	93%~15%		1-3	93%~13%	
GIRA	2390 00/ 100	[LED]	7 ~ 100 W - Push (3wire)	1-3	90%~3%		1-3	87%~4%		1-3	94%~3%		1-3	99%~3%	
Hager	EVN 011	[RC]	300 VA	1-3	97%~6%		1-3	97%~6%		1-3	97%~3%		1-3	97%~3%	
Hager	EVN 012	[RC]	300 W	1-3	97%~6%		1-3	97%~6%		1-3	97%~3%		1-3	97%~3%	
Hager	EVN 004	[RL]	500 VA	1-3	97%~6%		1-3	97%~6%		1-3	97%~3%		1-3	97%~3%	
Jung	225 TDE	[RC]	20 ~ 525 W - Turn	1-3	90%~10%		1-3	89%~9%		1-3	92%~8%		1-3	93%~7%	
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)	1-3	87%~20%		1-3	89%~29%		1-3	95%~3%		1-3	93%~3%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W		N.A.	N.A.		N.A.	N.A.	1-3	84%~12%		1-3	87%~20%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer		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.
Legrand	774161	[RL]	40 ~ 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 ~ 500W	1-3	94%~7%		1-3	94%~7%		1-3	93%~3%		1-3	93%~3%	
Legrand	67081	[RL]	40 ~ 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 ~ 600 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 ~ 400W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	93%~7%			N.A.	N.A.		98%~3%			92%~3%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	93%~3%		1-3	91%~3%			96%~3%			97%~3%	
Legrand	L4402N	[R]	60 ~ 500 W	1-3	86%~17%		1-3	86%~18%			N.A.	N.A.	2-3	87%~11%	
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	1-3	90%~10%		1-3	89%~10%		3	91%~3%		1-3	91%~7%	
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	1-3	87%~3%		1-3	84%~3%		1-3	93%~3%		1-3	98%~3%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA	1-3	93%~7%		1-3	91%~4%		1-3	91%~3%		1-3	93%~3%	
MK - Electric	K1535	[R]	65 ~ 450 W - Turn	1-3	80%~7%		1-3	82%~9%		1-3	82%~3%		1-3	84%~6%	
MK - Electric	K1501 WHILV	[R]	60 ~ 500 W - Turn	1-3	83%~7%			N.A.	N.A.	1-3	89%~3%		1-3	92%~3%	
MK - Electric	K4501 WHILV	[RLC]	180 W	1-3	85%~8%		1-3	85%~8%		1-3	87%~3%		1-3	88%~3%	
MK - Electric	K4500 WHILV	[RLC]	400 W	1-3	90%~9%		1-3	90%~9%		1-3	87%~3%		1-3	87%~3%	
NIKO	310-0280X	[LED]	2 ~ 100 VA	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%	
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W	1-3	87%~3%		1-3	87%~3%		1-3	85%~12%		1-3	89%~27%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)	1-3	87%~3%		1-3	87%~3%		1-3	94%~3%		1-3	94%~3%	
RELCO	RP0977	[LED]	4 - 100W	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.
RELCO	RM0545	[LED]	4 - 100W	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.
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	1-3	87%~3%		1-3	84%~3%		1-3	93%~3%		1-3	98%~3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	1-3	87%~3%		1-3	84%~3%		1-3	93%~3%		1-3	98%~3%	
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA - Turn Universal (2wire)	1-3	90%~10%		1-3	89%~10%		3	91%~3%		1-3	91%~7%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	1-3	87%~3%		1-3	84%~3%		1-3	93%~3%		1-3	98%~3%	
VADSBO	ED 350	[RC]	50 ~ 350 W	1-3	84%~23%		1-3	84%~23%		1-3	89%~16%		1-3	85%~11%	
VADSBO	DRS 315	[RC]	50 ~ 315 W	1-3	96%~9%		1-3	96%~9%		1-3	92%~3%		1-3	92%~3%	
VADSBO	DU 250	[RC]	20 ~ 250 W	1-3	87%~3%		1-3	87%~3%		1-3	87%~3%		1-3	83%~3%	
Varilight	HQ3W	[R]	60 - 400 W	1-3	90%~3%		1-3	91%~4%		1-3	95%~3%		1-3	95%~3%	
Varilight	ICT401 M	[RC]	20 - 400 W	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.
Vimar	20148	[RL]	500 W	1-3	93%~7%		1-3	91%~7%			N.A.	N.A.	1-3	94%~3%	
Vimar	14153	[R]		1-3	98%~3%		1-3	98%~3%		1-3	99%~3%		1-3	99%~3%	
Vimar	20160	[RC]		1-3	92%~4%		1-3	92%~4%			N.A.	N.A.	1-3	92%~3%	
Vimar	20162	[RL]	40 ~ 300 W	1-3	90%~7%		1-3	87%~4%		1-3	95%~5%		1-3	88%~3%	
Dynalite	DDLE801		(100 W per channel)	1-3	90%~3%		1-3	89%~4%		1-3	92%~3%		1-3	95%~3%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	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 performace of LED products.
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PHILIPS

September 2017

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

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				LED bulb					
				CorePro LEDbulb 11.5W-75W			CorePro LEDbulb 16W-100W		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286710	[RC]	20 ~ 360 W - Turn	1-3	90%~10%	T.B.D.	1-3	91%~9%	
Berker |INSTA	283010	[R]	60 ~ 400 W - Turn	1-3	94%~12%			N.A.	N.A.
Bticino	L4407	[]	60 ~ 250 W		N.A.	N.A.		N.A.	N.A.
Busch Jaeger |ABB	2200 U - 503	[R]	60 ~ 400 W - Turn	1-3	92%~24%		1-3	94%~25%	
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W - Turn	1-3	94%~3%		1-3	94%~3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W - Turn	1-3	96%~3%		1-3	94%~3%	
Busch Jaeger |ABB	6513 U - 102	[RC]	40 ~ 420 W - Turn	1-3	92%~10%		1-3	93%~9%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA - LED - Turn	1-3	82%~3%		1-3	90%~3%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA - LED - Push (2wire)	1-3	88%~23%		1-3	91%~25%	
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)	1-3	88%~13%		1-3	90%~13%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	1-3	88%~3%		1-3	90%~3%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W	1-3	92%~3%		1-3	94%~3%	
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	1-3	88%~13%		1-3	90%~13%	
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	1-3	88%~3%		1-3	90%~3%	
Feller| Schneider	40420 (SBD420)	[RLC]	420 W	1-3	92%~3%		1-3	94%~3%	
GIRA	1176-00/01	[RLC]	50 ~ 420 W	1-3	92%~20%		1-3	93%~19%	
GIRA	2390 00/ 100	[LED]	7 ~ 100 W - Push (3wire)	1-3	90%~3%		1-3	91%~3%	
Hager	EVN 011	[RC]	300 VA	1-3	97%~3%		1-3	96%~4%	
Hager	EVN 012	[RC]	300 W	1-3	95%~3%		1-3	95%~4%	
Hager	EVN 004	[RL]	500 VA	1-3	97%~5%		1-3	98%~4%	
Jung	225 TDE	[RC]	20 ~ 525 W - Turn	1-3	90%~10%		1-3	91%~11%	
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)	1-3	90%~28%		1-3	91%~26%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W	1-3	83%~25%		1-3	85%~23%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Legrand	774161	[RL]	40 ~ 400 W - Turn		N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 ~ 500W	1-3	92%~5%		1-3	94%~5%	
Legrand	67081	[RL]	40 ~ 400 W - Turn		N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 ~ 600 W - Turn		N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 ~ 400W		N.A.	N.A.		N.A.	N.A.
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	92%~5%		1-3	92%~5%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	1-3	94%~3%		1-3	94%~3%	
Legrand	L4402N	[R]	60 ~ 500 W	1-3	85%~17%		1-3	85%~16%	
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	1-3	88%~13%		1-3	90%~13%	
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	1-3	88%~3%		1-3	90%~3%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA	1-3	92%~3%		1-3	94%~3%	
MK - Electric	K1535	[R]	65 ~ 450 W - Turn	1-3	82%~10%		1-3	83%~9%	
MK - Electric	K1501 WHILV	[R]	60 ~ 500 W - Turn	1-3	78%~8%		1-3	88%~8%	
MK - Electric	K4501 WHILV	[RLC]	180 W	1-3	78%~8%		1-3	88%~8%	
MK - Electric	K4500 WHILV	[RLC]	400 W	1-3	78%~8%		1-3	88%~8%	
NIKO	310-0280X	[LED]	2 ~ 100 VA	1-3	95%~13%		1-3	95%~13%	
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W	1-3	88%~28%		1-3	88%~28%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)	1-3	82%~3%		1-3	90%~3%	
RELCO	RP0977	[LED]	4 - 100W	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
RELCO	RM0545	[LED]	4 - 100W	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	1-3	88%~3%		1-3	90%~3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	1-3	88%~3%		1-3	90%~3%	
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA - Turn Universal (2wire)	1-3	88%~13%		1-3	90%~13%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	1-3	88%~3%		1-3	90%~3%	
VADSBO	ED 350	[RC]	50 ~ 350 W	1-3	85%~17%		1-3	83%~15%	
VADSBO	DRS 315	[RC]	50 ~ 315 W	1-3	90%~7%		1-3	91%~6%	
VADSBO	DU 250	[RC]	20 ~ 250 W	1-3	80%~3%		1-3	80%~3%	
Varilight	HQ3W	[R]	60 - 400 W	1-3	94%~3%		1-3	93%~3%	
Varilight	ICT401 M	[RC]	20 - 400 W	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Vimar	20148	[RL]	500 W	1-3	94%~7%		1-3	94%~6%	
Vimar	14153	[R]		1-3	97%~3%		1-3	98%~3%	
Vimar	20160	[RC]		1-3	90%~3%		1-3	91%~3%	
Vimar	20162	[RL]	40 ~ 300 W	1-3	88%~3%		1-3	91%~3%	
Dynalite	DDLE801		(100 W per channel)	1-3	92%~3%		1-3	95%~3%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	1-3	92%~3%		1-3	96%~3%	

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PHILIPS

September 2017

Professional LED lamps MV range

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

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				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								
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286710	[RC]	20 ~ 360 W - Turn	1 -3	98%~3%		1 - 3	93%~3%		1 - 3	93%~3%	
Berker |INSTA	283010	[R]	60 ~ 400 W - Turn	2-3	97%~3%		1 - 3	94%~3%		1 - 3	94%~3%	
Bticino	L4407	[]	60 ~ 250 W	T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger |ABB	2200 U - 503	[R]	60 ~ 400 W - Turn	1 -3	98%~8%		1 - 3	97%~3%		1 - 3	97%~3%	
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W - Turn	1 -3	98%~3%		1 - 3	94%~3%		1 - 3	94%~3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W - Turn	1 -3	97%~3%		1 - 3	96%~3%		1 - 3	96%~3%	
Busch Jaeger |ABB	6513 U - 102	[RC]	40 ~ 420 W - Turn	1 -3	99%~3%		1 - 3	95%~3%		1 - 3	95%~3%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA - LED - Turn	1 -3	97%~3%		1 - 3	91%~3%		1 - 3	91%~3%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA - LED - Push (2wire)	1 -3	93%~3%		1 - 3	95%~3%		1 - 3	95%~3%	
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)	2-3	99%~3%		1 - 3	94%~6%		1 - 3	94%~6%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	2-3	98%~3%		1 - 3	83%~3%		1 - 3	83%~3%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W		N.A.	N.A.	3	99%~3%		3	99%~3%	
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	1 -3	91%~3%		1 - 3	99%~3%		1 - 3	99%~3%	
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	2-3	99%~3%		1 - 3	94%~6%		1 - 3	94%~6%	
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	2-3	98%~3%		1 - 3	83%~3%		1 - 3	83%~3%	
Feller| Schneider	40420 (SBD420)	[RLC]	420 W		N.A.	N.A.	3	99%~3%		3	99%~3%	
GIRA	1176-00/01	[RLC]	50 ~ 420 W	1 -3	99%~3%		1 - 3	95%~11%		1 - 3	95%~11%	
GIRA	2390 00/ 100	[LED]	7 ~ 100 W - Push (3wire)	T.B.D.	T.B.D.	T.B.D.	1 - 3	93%~3%		1 - 3	93%~3%	
Hager	EVN 011	[RC]	300 VA	1 -3	92%~3%		1 - 3	96%~3%		1 - 3	96%~3%	
Hager	EVN 012	[RC]	300 W	1 -3	92%~3%		1 - 3	98%~3%		1 - 3	98%~3%	
Hager	EVN 004	[RL]	500 VA	1 -3	92%~3%		1 - 3	98%~4%		1 - 3	98%~4%	
Jung	225 TDE	[RC]	20 ~ 525 W - Turn	1 -3	98%~3%		1 - 3	93%~6%		1 - 3	93%~6%	
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)	1 -3	97%~3%		1 - 3	95%~10%		1 - 3	95%~10%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W	1 -3	86%~4%		1 - 3	86%~3%		1 - 3	86%~3%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	1 -3	92%~3%		1 - 3	80%~3%		1 - 3	80%~3%	
Legrand	774161	[RL]	40 ~ 400 W - Turn	2-3	98%~3%			N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 ~ 500W	1 -3	91%~3%		1 - 3	95%~3%		1 - 3	95%~3%	
Legrand	67081	[RL]	40 ~ 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	67082	[RL]	40 ~ 600 W - Turn	2-3	97%~3%			N.A.	N.A.		N.A.	N.A.
Legrand	67083	[RLC]	3 ~ 400W	1 -3	90%~3%		1 - 2	87%~5%		1 - 2	87%~5%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	1 -3	97%~3%		1 - 3	95%~3%		1 - 3	95%~3%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	1 -3	97%~3%		1 - 3	98%~3%		1 - 3	98%~3%	
Legrand	L4402N	[R]	60 ~ 500 W	2 -3	88%~3%		2 - 3	87%~5%		2 - 3	87%~5%	
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	2-3	99%~3%		1 - 3	94%~6%		1 - 3	94%~6%	
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	2-3	98%~3%		1 - 3	83%~3%		1 - 3	83%~3%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA		N.A.	N.A.	3	99%~3%		3	99%~3%	
MK - Electric	K1535	[R]	65 ~ 450 W - Turn	2-3	93%~3%		1 - 3	84%~3%		1 - 3	84%~3%	
MK - Electric	K1501 WHILV	[R]	60 ~ 500 W - Turn	1-3	98%~3%		1 - 3	87%~3%		1 - 3	87%~3%	
MK - Electric	K4501 WHILV	[RLC]	180 W	1 -3	98%~3%		1 - 3	91%~9%		1 - 3	91%~9%	
MK - Electric	K4500 WHILV	[RLC]	400 W	1 -3	92%~3%		1 - 3	91%~9%		1 - 3	91%~9%	
NIKO	310-0280X	[LED]	2 ~ 100 VA	1 -3	91%~3%		1 - 3	97%~3%		1 - 3	97%~3%	
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W	1 -3	97%~3%		1 - 3	87%~3%		1 - 3	87%~3%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)	1 -3	97%~3%		1 - 3	91%~3%		1 - 3	91%~3%	
RELCO	RP0977	[LED]	4 - 100W	1 -3	98%~3%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
RELCO	RM0545	[LED]	4 - 100W	1 -3	92%~3%		T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	2-3	98%~3%		1 - 3	83%~3%		1 - 3	83%~3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	2-3	98%~3%		1 - 3	83%~3%		1 - 3	83%~3%	
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA - Turn Universal (2wire)	2-3	99%~3%		1 - 3	94%~6%		1 - 3	94%~6%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	2-3	98%~3%		1 - 3	83%~3%		1 - 3	83%~3%	
VADSBO	ED 350	[RC]	50 ~ 350 W	1 -3	98%~3%		1 - 3	91%~9%		1 - 3	91%~9%	
VADSBO	DRS 315	[RC]	50 ~ 315 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
VADSBO	DU 250	[RC]	20 ~ 250 W	1 -3	84%~3%		1 - 3	87%~3%		1 - 3	87%~3%	
Varilight	HQ3W	[R]	60 - 400 W	2 -3	97%~3%		1 - 3	93%~3%		1 - 3	93%~3%	
Varilight	ICT401 M	[RC]	20 - 400 W	1 -3	75%~3%		1 - 3	87%~3%		1 - 3	87%~3%	
Vimar	20148	[RL]	500 W	1 -3	98%~3%		1 - 3	95%~3%	<2	1 - 3	95%~3%	<2
Vimar	14153	[R]		1 -3	89%~3%		1 - 3	98%~3%		1 - 3	98%~3%	
Vimar	20160	[RC]		1 -3	91%~3%		1 - 3	92%~3%		1 - 3	92%~3%	
Vimar	20162	[RL]	40 ~ 300 W	1 -3	98%~3%		1 - 3	97%~3%	<2	1 - 3	97%~3%	<2
Dynalite	DDLE801		(100 W per channel)	3	91%~3%		1 - 3	89%~3%		1 - 3	89%~3%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	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

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PHILIPS

September 2017

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

				LEDcandle/luster											
				Master LEDCandle / LEDlustre DimTone 4-25W			Master LEDCandle / LEDlustre DimTone 6-40W			Master LEDCandle DimTone 8-60W			Classic LED filament candle/lustre B35 3W-25W clear P45 3W-25W clear		
													NEW		
Brand	Type	Type	Load	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing	Dimming Performance	Dimming Range	Glowing
Berker |INSTA	286710	[RC]	20 ~ 360 W - Turn	2-18	96%~3%		2-12	93%~3%		2-12	90%~3%		2 -8	99%~3%	
Berker |INSTA	283010	[R]	60 ~ 400 W - Turn	2-20	89%~3%		2-13	89%~3%		T.B.D.	T.B.D.	T.B.D.	2 -8	99%~3%	
Bticino	L4407	[]	60 ~ 250 W		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Busch Jaeger |ABB	2200 U - 503	[R]	60 ~ 400 W - Turn	2-20	92%~3%		2-13	92%~3%		T.B.D.	T.B.D.	T.B.D.	2 - 8	99%~12%	
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W - Turn	2-25	91%~3%		2-17	91%~3%		T.B.D.	T.B.D.	T.B.D.	2 - 8	99%~3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W - Turn	2-30	88%~3%		2-20	93%~3%		2-15	92%~3%		3 - 8	99%~3%	
Busch Jaeger |ABB	6513 U - 102	[RC]	40 ~ 420 W - Turn	2-21	94%~3%		2-14	91%~3%		2-14	91%~3%		2 - 8	99%~3%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA - LED - Turn	2-20	84%~3%		2-17	83%~3%		2-15	88%~3%		2 - 6	99%~3%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA - LED - Push (2wire)	2-20	88%~7%	<4	2-17	88%~5%	< 6	2-17	99%~3%		2 - 20	97%~3%	
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)	2-20	95%~3%		2-13	92%~3%		2-13	90%~3%		2 - 8	99%~3%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	2-15	88%~3%		2-11	87%~0%		2-11	90%~3%		3 - 8	99%~3%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W	2-20	91%~3%		2-14	90%~3%		T.B.D.	T.B.D.	T.B.D.	3 - 8	99%~3%	
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	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%	
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	2-20	95%~3%		2-13	92%~3%		2-13	90%~3%		2 - 8	99%~3%	
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	2-15	88%~3%		2-11	87%~0%		2-11	90%~3%		3 - 8	99%~3%	
Feller| Schneider	40420 (SBD420)	[RLC]	420 W	2-20	91%~3%		2-14	90%~3%		T.B.D.	T.B.D.	T.B.D.	3 - 8	99%~3%	
GIRA	1176-00/01	[RLC]	50 ~ 420 W	2-20	95%~7%	<7	2-14	95%~5%	< 9	2-14	99%~4%		2 - 17	97%~3%	
GIRA	2390 00/ 100	[LED]	7 ~ 100 W - Push (3wire)	2-25	94%~3%		2-17	92%~3%		T.B.D.	T.B.D.	T.B.D.	2- 8	99%~19%	
Hager	EVN 011	[RC]	300 VA		95%~4%	<7	2-10	96%~3%	< 10	2-10	99%~3%		2 - 12	96%~3%	
Hager	EVN 012	[RC]	300 W		95%~4%	<7	2-10	95%~3%	< 10	2-10	99%~3%		2 - 12	96%~3%	
Hager	EVN 004	[RL]	500 VA		95%~7%	<7	2-17	96%~4%	< 11	2-10	99%~3%		2 - 20	96%~3%	
Jung	225 TDE	[RC]	20 ~ 525 W - Turn	2-26	89%~3%		2-18	89%~3%		2-10	89%~3%		2 -8	99%~3%	
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)	2-25	93%~4%		2-17	92%~3%		2-15	90%~3%		2 - 8	99%~3%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W		78%~7%	<6	2-4	77%~4%	< 5	2-4	88%~3%		2 - 5	93%~4%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	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%	
Legrand	774161	[RL]	40 ~ 400 W - Turn		N.A.	N.A.		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	3 -8	99%~3%	
Legrand	78401	[RLC]	40 ~ 500W	2-20	95%~4%	<7	2-13	93%~4%	< 9	2-13	99%~3%		2 -16	95%~3%	
Legrand	67081	[RL]	40 ~ 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.	3 -8	99%~3%	
Legrand	67082	[RL]	40 ~ 600 W - Turn		N.A.	N.A.		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	3 -8	99%~3%	
Legrand	67083	[RLC]	3 ~ 400W		N.A.	N.A.		N.A.	N.A.	2-5	87%~3%		2 -16	95%~3%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)		N.A.	N.A.		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	2 -8	99%~3%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	2-15	94%~3%		2-10	91%~3%		2-10	95%~3%		2 -8	99%~3%	
Legrand	L4402N	[R]	60 ~ 500 W		79%~4%		8-17	79%~4%		3-17	90%~3%		3 -20	95%~3%	
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	2-20	95%~3%		2-13	92%~3%		2-13	90%~3%		2 - 8	99%~3%	
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	2-15	88%~3%		2-11	87%~3%		2-11	90%~3%		3 - 8	99%~3%	
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA	2-20	91%~3%		2-14	90%~3%		T.B.D.	T.B.D.	T.B.D.	3 - 8	99%~3%	
MK - Electric	K1535	[R]	65 ~ 450 W - Turn	2-23	79%~3%		2-15	77%~3%		2-15	80%~3%		3 - 8	99%~3%	
MK - Electric	K1501 WHILV	[R]	60 ~ 500 W - Turn	2-25	88%~3%		2-17	87%~3%		2-15	80%~3%		3 - 8	99%~3%	
MK - Electric	K4501 WHILV	[RLC]	180 W		83%~3%		2-7	82%~3%		2-7	90%~3%		3 - 9	96%~3%	
MK - Electric	K4500 WHILV	[RLC]	400 W		83%~3%			N.A.	N.A.	2-13	84%~3%		8 - 16	96%~3%	
NIKO	310-0280X	[LED]	2 ~ 100 VA	2-5	96%~5%		2-3	96%~4%		2-3	99%~3%		2 - 4	94%~3%	
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W		82%~7%		2-4	82%~5%		2-4	89%~3%		2 - 5	96%~3%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)	2-20	84%~3%		2-17	83%~3%		2-15	88%~3%		2 - 6	99%~3%	
RELCO	RP0977	[LED]	4 - 100W	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%	
RELCO	RM0545	[LED]	4 - 100W	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.
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	2-15	88%~3%		2-11	87%~3%		2-11	90%~3%		3 - 8	99%~3%	
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	2-15	88%~3%		2-11	87%~3%		2-11	90%~3%		3 - 8	99%~3%	
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA - Turn Universal (2wire)	2-20	95%~3%		2-13	92%~3%		2-13	90%~3%		2 - 8	99%~3%	
Schneider	SBD315RC (SBD 315)	[RC]	315 W	2-15	88%~3%		2-11	87%~3%		2-11	90%~3%		3 - 8	99%~3%	
VADSBO	ED 350	[RC]	50 ~ 350 W	2-18	88%~7%		2-12	84%~4%		2-12	90%~3%		2 - 14	95%~3%	
VADSBO	DRS 315	[RC]	50 ~ 315 W	4-16	89%~4%		5-11	91%~4%	< 12	3-11	80%~3%		3 - 13	95%~3%	
VADSBO	DU 250	[RC]	20 ~ 250 W	2-13	86%~3%		2-8	79%~3%	< 8	2-8	85%~3%		2 - 10	85%~3%	
Varilight	HQ3W	[R]	60 - 400 W	2-20	91%~3%		2-13	90%~3%		2-13	90%~3%		3 -8	99%~3%	
Varilight	ICT401 M	[RC]	20 - 400 W	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%	
Vimar	20148	[RL]	500 W	6-25	90%~3%	<6	4-17	92%~3%	<4	T.B.D.	T.B.D.	T.B.D.	2 - 8	99%~3%	<2
Vimar	14153	[R]		2-20	99%~3%		2-17	96%~3%	< 7	2-17	93%~3%		5 -20	96%~3%	
Vimar	20160	[RC]			89%~3%		2-10	89%~3%	< 11	2-17	96%~3%		2 -20	96%~3%	
Vimar	20162	[RL]	40 ~ 300 W	6-15	92%~3%	<6	4-10	86%~3%	<4	T.B.D.	T.B.D.	T.B.D.	2 - 8	99%~3%	<2
Dynalite	DDLE801		(100 W per channel)	2-20	89%~3%		2-17	91%~3%		T.B.D.	T.B.D.	T.B.D.	5 -8	94%~3%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	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.

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

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

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

September 2017

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

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				LED special								
				LED capsule G9 2.5W - 25W			Corepro R7s 118mm D 14W - 100W			Corepro LEDlinear R7s 118mm D 14 - 120		
Brand	**Type**	**Type**	**Load**	**Dimming Performance**	**Dimming Range**	**Glowing**	**Dimming Performance**	**Dimming Range**	**Glowing**	**Dimming Performance**	**Dimming Range**	**Glowing**
Berker |INSTA	286710	[RC]	20 ~ 360 W - Turn	3-20	96%~27%		1	89%~8%		1	94%~21%	
Berker |INSTA	283010	[R]	60 ~ 400 W - Turn	3-20	86%~23%		1	94%~3%		1	97%~16%	
Bticino	L4407	[]	60 ~ 250 W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.
Busch Jaeger |ABB	2200 U - 503	[R]	60 ~ 400 W - Turn	3-20	85%~33%		1	91%~23%		1	98%~27%	
Busch Jaeger |ABB	2247 U	[RL]	20 ~ 500 W - Turn	3-20	83%~9%		1	93%~3%		1	96%~3%	
Busch Jaeger |ABB	2250 U	[R]	60 ~ 600 W - Turn	3-20	87%~6%		1	96%~3%		1	95%~15%	
Busch Jaeger |ABB	6513 U - 102	[RC]	40 ~ 420 W - Turn	3-20	98%~24%		1	93%~7%		1	97%~23%	
Busch Jaeger |ABB	6523 U	[LED]	2 ~ 100 VA - LED - Turn	3-20	92%~3%		1	88%~3%		1	92%~21%	
Busch Jaeger |ABB	6526 U	[LED]	2 ~ 100 VA - LED - Push (2wire)	3-20	97%~23%	< 7	T.B.D.	T.B.D.	T.B.D.	1	96%~15%	
ELKO| Schneider	SBD200LED (CCTEL10501)	[LED/RC]	4 ~ 200W (RC) 4 ~ 400W (RL)	3-20	96%~30%		1	88%~10%		1	94%~21%	
ELKO| Schneider	SBD315RC (315 GLE)	[RC]	315 W	3-20	95%~9%		1	89%~3%		1	93%~4%	
ELKO| Schneider	SBD420RCRL (CCTEL13011)	[RLC]	420 W		N.A.	N.A.	1	93%~3%			N.A.	N.A.
Eltako	EVD61NPN-UC		400 W 3-wire Push Module	3-20	99%~15%		T.B.D.	T.B.D.	T.B.D.	1 - 3	97%~7%	
Feller| Schneider	40200 (SBD200LED CCTCH10601)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	3-20	96%~30%		1	88%~10%		T.B.D.	T.B.D.	T.B.D.
Feller| Schneider	40300 (SBD315)	[RLC]	300 W	3-20	95%~9%		1	89%~3%		1	93%~4%	
Feller| Schneider	40420 (SBD420)	[RLC]	420 W		N.A.	N.A.	1	93%~3%			N.A.	N.A.
GIRA	1176-00/01	[RLC]	50 ~ 420 W	3-20	96%~39%	< 12	T.B.D.	T.B.D.	T.B.D.	1 - 3	93%~25%	
GIRA	2390 00/ 100	[LED]	7 ~ 100 W - Push (3wire)	3-18	91%~15%		1	89%~4%		1	92%~10%	
Hager	EVN 011	[RC]	300 VA	3-20	98%~18%	< 14	T.B.D.	T.B.D.	T.B.D.	1 - 3	95%~16%	
Hager	EVN 012	[RC]	300 W	3-20	99%~28%	< 14	T.B.D.	T.B.D.	T.B.D.	1 - 3	97%~17%	
Hager	EVN 004	[RL]	500 VA	3-20	99%~28%	< 15	T.B.D.	T.B.D.	T.B.D.	1 - 3	99%~18%	
Jung	225 TDE	[RC]	20 ~ 525 W - Turn	3-20	96%~33%		1	90%~10%		1	94%~23%	
Jung	1271LEDDE	[LED]	3 ~ 100W - Push (3wire)	3-20	94%~3%		1	90%~3%		1	93%~9%	
Klik aan Klik uit	AWMD-250	[LED]	3 ~ 24W	3-10	86%~3%	< 11	T.B.D.	T.B.D.	T.B.D.		84%~30%	
Klik aan Klik uit	ACM 300		300W - 3-wire Push LED Dimmer	3-20	33%~3%	< 10	T.B.D.	T.B.D.	T.B.D.		92%~10%	
Legrand	774161	[RL]	40 ~ 400 W - Turn		N.A.	N.A.		N.A.	N.A.		N.A.	N.A.
Legrand	78401	[RLC]	40 ~ 500W	3-20	97%~3%	< 13	T.B.D.	T.B.D.	T.B.D.	1 - 3	97%~11%	
Legrand	67081	[RL]	40 ~ 400 W - Turn		N.A.	N.A.		N.A.	N.A.	1	93%~30%	
Legrand	67082	[RL]	40 ~ 600 W - Turn		N.A.	N.A.		N.A.	N.A.	1	92%~11%	
Legrand	67083	[RLC]	3 ~ 400W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.		88%~6%	
Legrand	67084	[RLC]	8 - 300 VA - Push LED (3wire)	3-20	97%~23%			N.A.	N.A.	1	96%~3%	
Legrand	67085 (078406)	[RLC]	8 - 300 VA - Push LED (3wire)	3-20	99%~4%			N.A.	N.A.	1	99%~3%	
Legrand	L4402N	[R]	60 ~ 500 W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	1	87%~22%	
Merten| Schneider	SBD200LED (MEG5134-0000)	[LED/RC]	4 ~ 200 W (RC) 4 ~ 400 W (RL)	3-20	96%~30%		1	88%~10%		T.B.D.	T.B.D.	T.B.D.
Merten| Schneider	SBD315RC (MEG5136-0000)	[RC]	315 W	3-20	95%~9%		1	89%~3%		T.B.D.	T.B.D.	T.B.D.
Merten| Schneider	SBD420RCRL (MEG5138-0000)	[RLC]	20 ~ 420 VA		N.A.	N.A.	1	93%~3%		T.B.D.	T.B.D.	T.B.D.
MK - Electric	K1535	[R]	65 ~ 450 W - Turn	3-20	72%~19%		1	82%~10%		1	81%~15%	
MK - Electric	K1501 WHILV	[R]	60 ~ 500 W - Turn	3-10	82%~17%		1	88%~6%		1	89%~12%	
MK - Electric	K4501 WHILV	[RLC]	180 W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	1 - 3	90%~12%	
MK - Electric	K4500 WHILV	[RLC]	400 W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	1 - 3	90%~13%	
NIKO	310-0280X	[LED]	2 ~ 100 VA	3-9	98%~8%		T.B.D.	T.B.D.	T.B.D.	1	98%~3%	
PEHA	431HAN	[RL]	6 ~ 120W [LED] 6 ~ 60W	3-10	76%~4%		T.B.D.	T.B.D.	T.B.D.	1 - 2	85%~4%	
Philips	UID8670	[LED]	2 ~ 100 VA-LED - Push (3wire)	3-20	92%~3%		1	88%~3%		T.B.D.	T.B.D.	T.B.D.
RELCO	RP0977	[LED]	4 - 100W	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	1	97%~27%	
RELCO	RM0545	[LED]	4 - 100W	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	T.B.D.	1	89%~10%	
Schneider	SBD315RC (SBD 315, SDD 315)	[RC]	315 W	3-20	95%~9%		1	89%~3%		T.B.D.	T.B.D.	T.B.D.
Schneider	SBD315RC (ATD315)(CCT011533)	[RC]	315 W	3-20	95%~9%		1	89%~3%		T.B.D.	T.B.D.	T.B.D.
Schneider	SBD200 (WDE 002299)	[]	4 ~ 400 VA - Turn Universal (2wire)	3-20	96%~30%		1	88%~10%		T.B.D.	T.B.D.	T.B.D.
Schneider	SBD315RC (SBD 315)	[RC]	315 W	3-20	95%~9%		1	89%~3%		T.B.D.	T.B.D.	T.B.D.
VADSBO	ED 350	[RC]	50 ~ 350 W	5-20	93%~34%		T.B.D.	T.B.D.	T.B.D.	1 - 3	99%~22%	
VADSBO	DRS 315	[RC]	50 ~ 315 W		N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.		N.A.	N.A.
VADSBO	DU 250	[RC]	20 ~ 250 W	3-20	92%~14%	<21	T.B.D.	T.B.D.	T.B.D.	1 - 3	82%~5%	<2
Varilight	HQ3W	[R]	60 - 400 W	3-20	85%~14%		1	93%~3%		1	95%~6%	
Varilight	ICT401 M	[RC]	20 - 400 W	3-20	85%~14%	< 11	T.B.D.	T.B.D.	T.B.D.	1 - 3	85%~2%	
Vimar	20148	[RL]	500 W		N.A.	N.A.	1	94%~4%		1	95%~12%	
Vimar	14153	[R]		3-20	98%~3%	<10	T.B.D.	T.B.D.	T.B.D.	1 - 3	96%~3%	
Vimar	20160	[RC]			N.A.	N.A.	T.B.D.	T.B.D.	T.B.D.	1 - 3	95%~6%	<2
Vimar	20162	[RL]	40 ~ 300 W	3-20	96%~18%	<21	1	90%~5%		1	94%~15%	
Dynalite	DDLE801		(100 W per channel)	3-20	97%~3%		1	88%~3%		1	97%~3%	
Dynalite	DDMC-GRMSPLUS		(460 W per channel)	3-20	97%~3%		1	91%~3%		1	99%~3%	

Note :

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

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

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

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

#4a) Yellow cells indication: Dimming performance: LED's have much lower load (wattage) than traditional 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

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09/2017
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